ORDER NO. VRD0010031C3

Service Manual

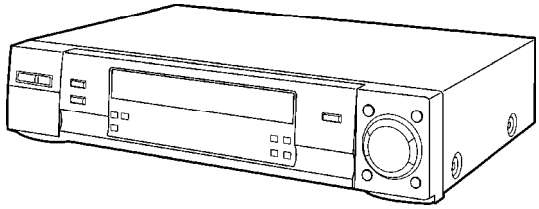
Video Cassette Recorder

Panasonic S VHS VHS PAL 625

Hi-Fi HQ

NV-HS960AM-S

Z-MECHANISM



SPECIFICATIONS

SPECIFICATIONS

ITEM	SPECIFICATION	ITEM	SPECIFICATION
POWER	SOURCE : 220 – 240 V, 50 / 60 Hz	AUDIO	INPUT : EURO AV (AV1/2) Connector (21 pinX2) –8 dBV (500 mV), More than 10 KΩ VIDEO IN (AV3:FRONT) Connector (Phono type) –8 dBV (500 mV), More than 10 KΩ VIDEO IN (AV4:REAR) Connector (Phono type) –8 dBV (500 mV), More than 10 KΩ
	CONSUMPTION : 28 watts		
RECORDING SYSTEM	2 rotary heads, helical scanning system		OUTPUT :EURO AV (AV1/2) Connector (21 pinX2) -8dBV (500 mV), Less than 1 KΩ AUDIO OUT Connector (Phono type) -8dBV (500 mV), Less than 1 KΩ
	PAL		
TV TUNER SYSTEM	VHF : CH E2 – CH E12 CH A – CH H2 UHF : CH 21 – CH 69 CATV CH S01 – CH S41 75 Ω terminated	TAPE FORMAT	S-VHS/VHS Cassette tape (Tape width 12.7 mm)
RF OUT SYSTEM	UHF : CH 21 – CH 69 71 ± 3 dBμ,75Ω close	TAPE SPEED	SP : 23.39 mm/s LP : 11.7 mm/s Record / Playback Time : SP : 4 hours with 240 min. type tape LP : 8 hours with 240 min. type tape FF / REW Time : 60 seconds with 180 min. type tape (NV-E18C)
VIDEO	HEADS : 4 rotary heads 1 pair for recording and playback (L-R heads) 1 pair for trick play (L' -R' heads)		
	INPUT : EURO AV (AV1/2) Connector (21pinX2) 1.0Vp-p, 75Ω terminated S-VIDEO IN (AV3:FRONT) Connector (S4P) 1.0Vp-p, 75Ω terminated VIDEO IN (AV3:FRONT) Connector (Phono type) 1.0Vp-p, 75Ω terminated S-VIDEO IN (AV4:REAR) Connector (S4P) 1.0Vp-p, 75Ω terminated VIDEO IN (AV4:REAR) Connector (Phono type) 1.0Vp-p, 75Ω terminated	OPERATING CONDITION	Temperature : 5 °C – 40 °C Humidity : 35 % – 80 %
		DIMENSIONS	430 (W) X 87 (H) X 301 (D) mm
		WEIGHT	4.0 kg
	OUTPUT: EURO AV (AV1/2) Connector (21 pinX2) 1.0 Vp-p, 75 Ω terminated S VIDEO OUT Connector (S4P) 1.0Vp-p, 75Ω terminated VIDEO OUT Connector (Phono type) 1.0Vp-p, 75Ω terminated	STANDARD ACCESSORIESES	1 pc. Remote Controller 2 pc. AC Mains Leads 1 pc. DIN-RF Cable 2 pc. "R6" size batteries 1 pc. Edit Cable 1 pc. S-VIDEO Cable 1 pc. Mains Plug Adapter
AUDIO	HEAD : 1 Stationary head (Normal Audio) 2 channels (Hi-Fi Sound- Stereo)		

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. INTRODUCTION

This service manual contains technical information which will allow service personnel to understand and service this model.
If the circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original service manual.

Note:

1. Adjustment procedures, Disassembly Procedures and Assembly Procedures for Mechanism Chassis are separate volume from this service manual. / Please refer to the service manual for Z-Mechanism Chassis. (Order No. VRD9802005C2)

2. GENERAL DESCRIPTIONS

2.1. SERVICE CAUTION-1

-REPLACING IC7701, IC7703 and/or B7701-
When the OSD-Microprocessor IC7701, S-RAM IC7703 and/or Back-up battery B7701 are replaced, the Tape Library data will not be available.Therefore, back up the Tape Library data first, then perform necessary servicing.

NOTE:

***The Tape Library system is achieved using not only the data of which is recorded on the tape but also the data is stored in S-RAM IC7703.*The stored data in S-RAM IC7703 is backed up by using the power source of:**
***AC Connected: AC Power souse**
***AC Disconnected: Back-up Battery (B7701).**
(NOTE: Even if the OSD PACK C.B.A.(VEP07A30C) is disconnected from the VCR, the power is still supplied from Back-up battery.)

2.1.1. REPLACING PROCEDURE

2.1.1.1. PREPARATION

NOTE:

It is necessary that the Tape Library System has to operate properly.

STEP1.BACK UP THE TAPE LIBRARY DATA

1. **Connect a TV and a RF Aerial lead to the VCR and receive one of TV station.**
2. **Record the TV programme for at least 15 minuets in the SP or LP mode on a Cassette Tape.**

2.1.1.2. REPLACEMENT

STEP2.REPLACE THE IC7701, IC7703 AND/OR B7701

1. **Disconnect the AC plug.**
2. **Remove the C.B.A. with Mechanism unit by referring the Disassembly procedure.**
3. **Replace the IC7701, IC7703 and/or B7701.**

STEP3.RESTORE THE TAPE LIBRARY DATA

1. **Using the Remote controller:**
   - **A. Press the MENU button and then the Cursor buttons to select "Tape Library".**
   - **B. Select "Restore data" and Press the OK button.**
2. **Insert the Backed-up cassette tape into the VCR. / The restoration of Library data starts automatically. / (It takes some time to be completed.)**
3. **Store the Tape Library data accordingly.**

2.2. SERVICE CAUTION-2

-REPLACING IC6701-

When the EEPROM IC6701 is replaced, proper model code, option code and electrical adjustment data will not be available. Therefore, enter the necessary data after replacing IC6701.

2.2.1. REPLACING PROCEDURE

STEP1.REPLACEMENT

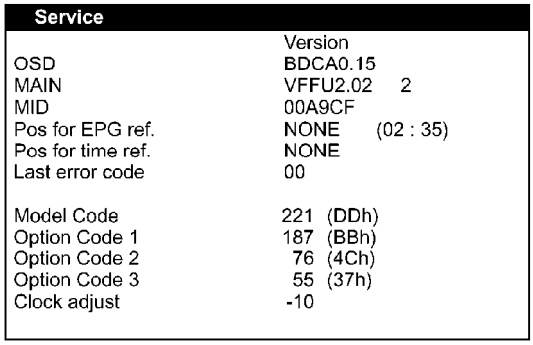
1. **Disconnect the AC plug and replace the IC6701.**

STEP2.INPUT THE MODEL& OPTION CODE

1. **Set up the model code and option code by ordering the following table.**

PROCEDURE	F.I.P. DISPLAY
Turn on the Service Mode -"Turn the Shuttle Ring to FF" and press the EJECT key simultaneously for more than 3 seconds.	
Activate the Service Mode 2 -"Turn the Shuttle Ring to FF" and press the EJECT key in twice.	
Activate the Entering Mode. -Press the EJECT key in more than 3 seconds.	
Set the Mode 2. -Press the CH UP key in twice.	
Display the Setting Code. -Press the POWER Button. / (POWER ON)	 **(Colon Starts Flashing)**
Enter the Model and Option Code. -Set the Model and Option code by using REW, PLAY, STOP and FF keys on the Remote Controller. (SeeFig.S1Service Screen (Sample) & S2)	
Exit from Service Mode. -Press the POWER Button. / (POWER OFF) -Press FF and EJECT keys simultaneously in 6 times.	 **(Normal Indication)**

Fig.S1 Service Screen (Sample)



Model No.	Model Code	Option Code 1	Option Code 2	Option Code 3
NV-HS960AM-S	221	187	76	55

Fig.S2 Model Code& Option Code

NOTE:

Since all electrical adjustments data is still not available, perform the Electrical Adjustment continuously.

- Turn on the Service Mode by: / Rotating the Shuttle Ring to FF side and press the EJECT key simultaneously for 3 seconds.

2.2.2. REPLACING OF BARRIER

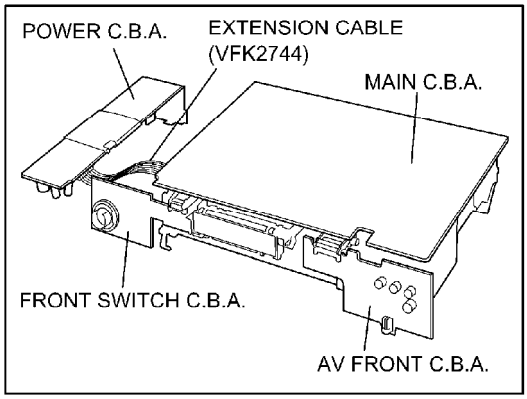
In case of replacing TBC pack, if the barrier at TBC pack is taken out, put it back again properly.

2.2.3. CHECKING OF MAIN C.B.A.

When servicing the MAIN C.B.A., take out the MAIN C.B.A. and mechanism from the frame and turn over.

And then connect the Extension Cable (VFK2744) between the POWER C.B.A. connector (P1102) and the MAIN C.B.A. connector (P1001) as shown in Fig. S3.

Fig. S3

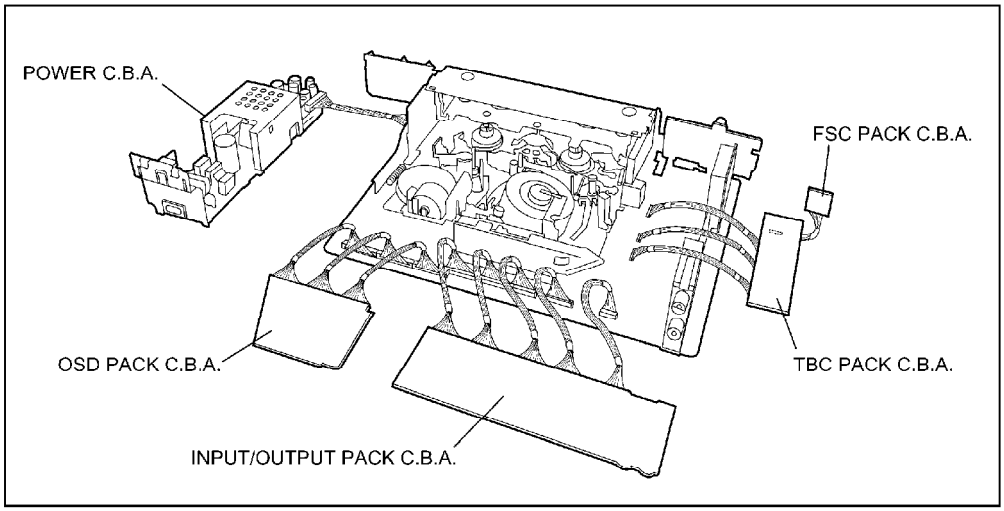


2.2.4. SERVICING THE PACK C.B.A.

When servicing the OSD Pack C.B.A. and Input/Output Pack C.B.A. and TBC Pack C.B.A. and FSC Pack C.B.A., connections of extension cable are necessary as shown below.

Part No.	Part Name	Pcs.	Connection
VFK1567	15P EXTENSION CABLE	4	PP7703 (MAIN C.B.A.) - PS7703 (OSD Pack C.B.A.) PP7702 (MAIN C.B.A.) - PS7702 (OSD Pack C.B.A.) PP7701 (MAIN C.B.A.) - PS7701 (OSD Pack C.B.A.) PP3904 (MAIN C.B.A.) - PS3904 (Input/OutputPack C.B.A.)
VFK1568	13P EXTENSION CABLE	1	PP3905 (MAIN C.B.A.) - PS3905 (Input/Output Pack C.B.A.
VFK1555	8P EXTENSION CABLE	1	PP3903 (MAIN C.B.A.) - PS3903 (Input/Output Pack C.B.A.
VFK1564	10P EXTENSION CABLE	1	PP3902 (MAIN C.B.A.) - PS3902 (Input/Output Pack C.B.A.
VFK1569	5P EXTENSION CABLE	1	PP3901 (MAIN C.B.A.) - PS3901 (Input/Output Pack C.B.A.
VFK1635	3P EXTENSION CABLE	2	PP3751 (TBC Pack C.B.A.) - PS3751 (FSC Pack C.B.A.) PP3502 (MAIN C.B.A.) - PS3502 (TBC Pack C.B.A.)
VFK1634	7P EXTENSION CABLE	2	PP3501 (MAIN C.B.A.) - PS3501 (TBC Pack C.B.A.) PP3503 (MAIN C.B.A.) - PS3503 (TBC Pack C.B.A.)
VFK2744	16P EXTENSION CABLE	1	P1001 (MAIN C.B.A.) - P1102 (POWER C.B.A.)

Fig. S4

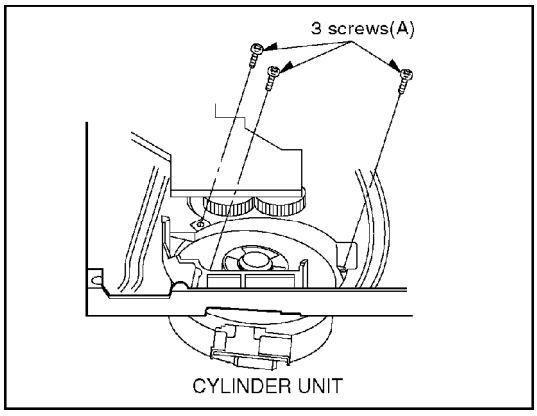


2.2.5. CYLINDER UNIT REPLACEMENT

1. CYLINDER UINT REPLACEMENT

A. Remove the 3 Screws (A) of the CLINDER UNIT with a magnetized screw driver.

Fig. S5



2. UPPER CYLINDER DISASSEMBLY

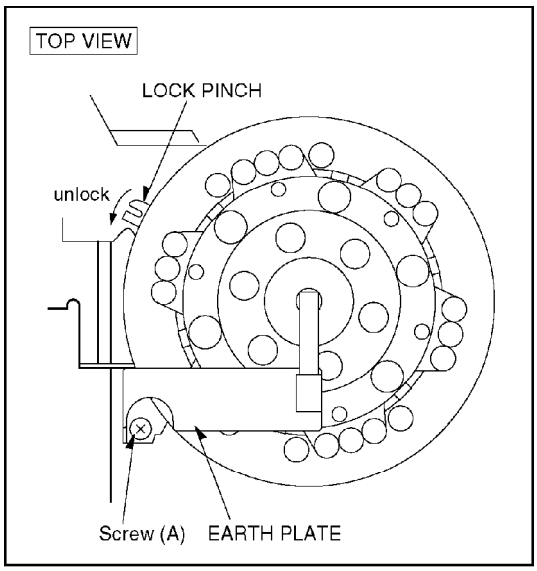
A. Remove the Top Panel.

B. Remove the screw (A) and Earth Plate.

C. Move the lock pinch to the left side in order to release the cylinder lock.

D. Keep turning the Upper cylinder clockwise and / counterclockwise alternately and remove the Upper cylinder.

Fig. S6



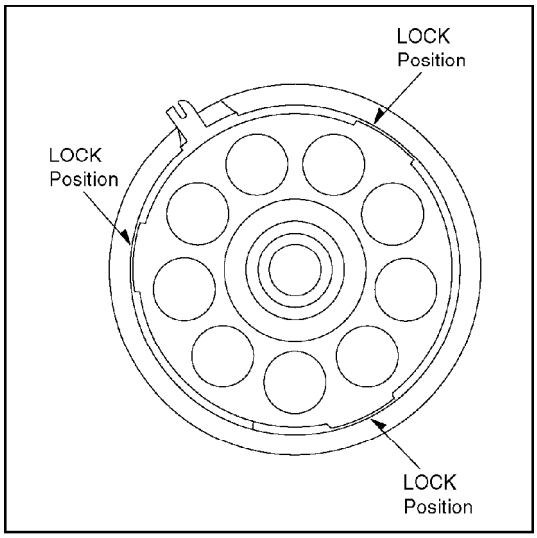
3. UPPER CYLINDER ASSEMBLY

A. When mount the Upper cylinder, the lock of it has to be released.

Keep turning Upper cylinder clockwise and / counterclockwise alternately and keep pressing it until it is mounted completely.

B. Move the lock pinch to right side in order to fix the Upper cylinder after the Upper cylinder has been mounted.

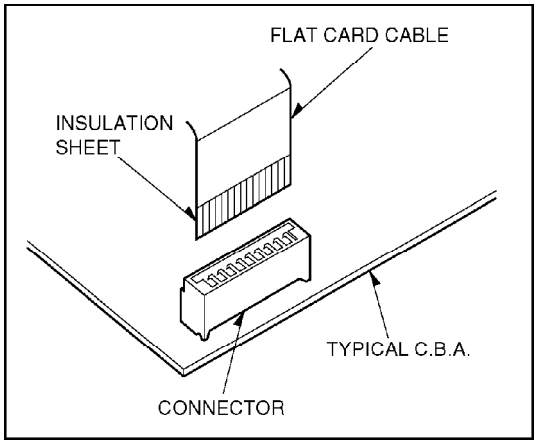
Fig. S7



2.2.6. FLAT CARD CABLE INSTALLATION

When installing the Flat Card Cable on the connector, install the Flat Card Cable with the cable contacts facing the connector contacts.

Fig. S8



2.3. REMOVAL OF CASSETTE TAPE

There are 2 ways to remove a cassette tape.

1. Service Information Display Operation

A. Turn the Shuttle Ring to FF and Press EJECT key simultaneously for 3 seconds and set the Service Mode 7.

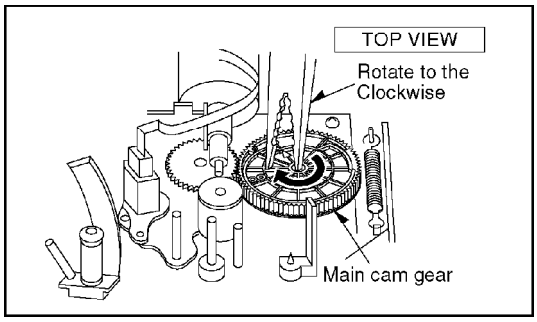
B. Press STOP key in order to rotate the Loading Motor for unloading operation. (Pay an attention of tape slack)

2. Manual Operation

A. Disconnect the AC Mains Lead and remove the Top Panel.

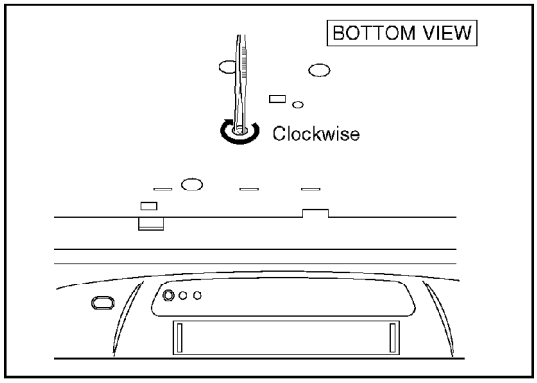
B. Rotate the Main Cam Gear clockwise until the Loading Posts move to fully unloaded position as shown inFig. S9. (Tape is remaining)

Fig. S9



C. Rotate the Capstan Motor clockwise from the bottom side to take up the tape.

Fig. S10



D. Rotate the Main Cam Gear clockwise until the cassette tape is ejected.

2.4. INTRODUCTION OF VIDEO HEAD CLEANING CASSETTE / (POLISHING TYPE)

1. **We are pleased to introduce Panasonic Video Head Cleaning Cassette,VFK0923FT [for service purposes] andVFK0923FSE [for end users] for all VHS/SVHS VCP and VCR.**
2. **These cleaning cassettes are exclusive removing the hard and sticky clogging on video heads.**
3. **These improve the efficiency of video head cleaning service and shortening cleaning time for end users.**

VFK0923FT (For Service usage)	
Type of Cassette	**Full VHS Cassette**
Cleaning Time	**10 Seconds/Time**
Tape Length	**20 m**
Usability in a Path	**180 Times**

VFK0923FSE (For end users)	
Type of Cassette	**Full VHS Cassette**
Cleaning Time	**10 Seconds/Time**
Tape Length	**3.34 m**
Usability in a Path	**30 Times**

VFK0923FSE (For end users)

Note:

The tape material itself is the same in both types.

2.5. HOW TO REPLACE THE LITHIUM BATTERY

2.5.1. Backup Battery B7701

This VTR equipped with the Backup Battery (B7701) to backup the following memorized data in the S-RAM IC7703.

1. Tape Library Data

2.5.2. Replacement Procedure

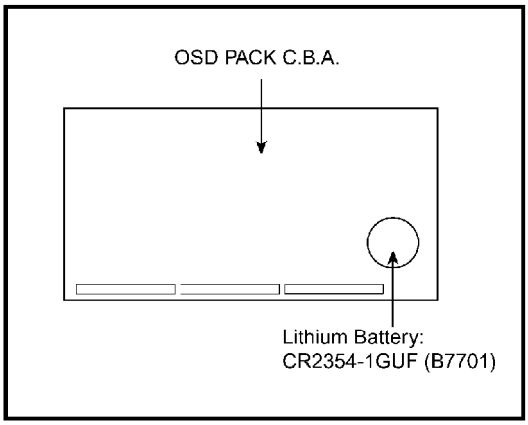
Note:

Before proceeding the replacement, back up the Tape Library data. (Refer to "2-1.SERVICE CAUTION-1".)

[Procedure]

1. **Remove the Top Panel.(Refer to Disassembly Procedures.)**
2. **Unsolder the Lithium Battery : B7701"CR2354-1GUF" which is located on OSD PACK C.B.A. and then replace it into new one.(See Fig. B1)**

Fig. B1



CAUTION:

The lithium battery is a critical component (Type No.: CR2354-1GUF Manufactured by Panasonic.) / It must never be subjected to excessive heat or discharge. / It must therefore only be fitted in equipment designed specifically for its use. / Replacementbatteries must be of the same type and manufacture. / They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed. / Do not attempt to re-charge the old battery or re-use it for any otherpurpose. / It should be disposed of in waste products destined for burial rather than incineration.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

ADVARSEL!

Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

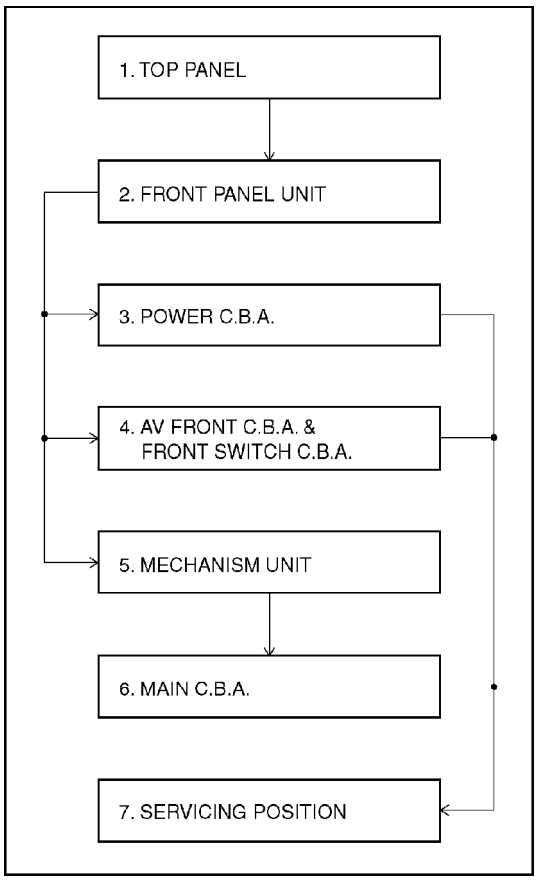
3. ADJUSTMENT PROCEDURES

3.1. DISASSEMBLY METHOD

3.1.1. DISASSEMBLY FLOW CHART

This flow chart indicates disassembly steps of the cabinet parts and the circuit boards in order to find the necessary items for servicing.
When reassembling, perform the steps in the reverse order.

Fig. D1

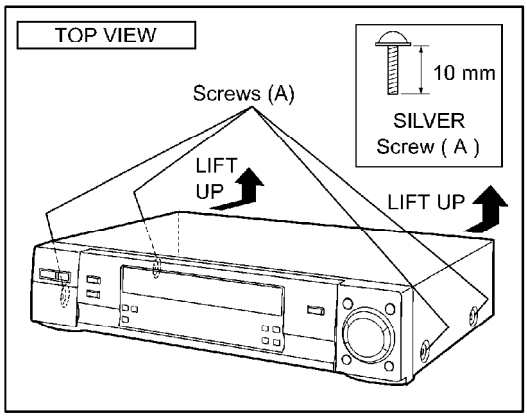


3.1.2. DETAIL OF DISASSEMBLY METHOD

1. REMOVAL OF THE TOP PANEL

Remove	**4 Screws (A)**

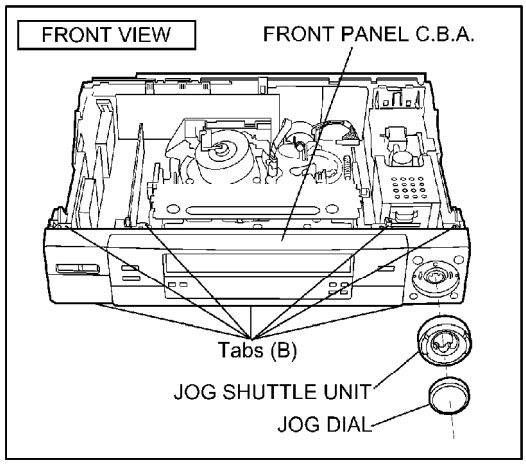
Fig. D2



2. REMOVAL OF THE FRONT PANEL UNIT

Pull out	**JOG& SHUTTLE UNIT& JOG DIAL**
Unlock	**7 Tabs (B)**

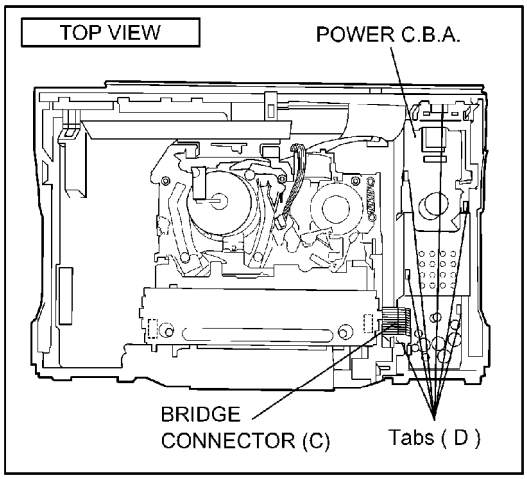
Fig. D3



3. REMOVAL OF THE POWER C.B.A.

Disconnect	**Bridge Connector (C)**
Unlock	**6 Tabs (D)**

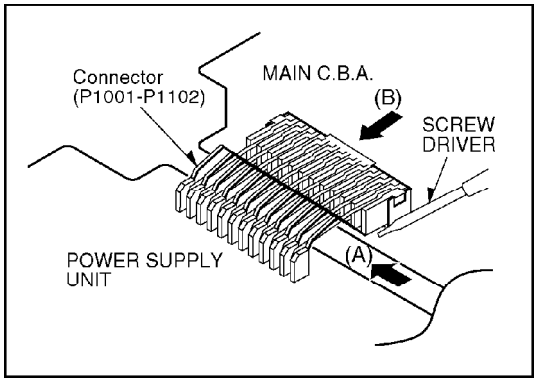
Fig. D4



COUTIONS:

Please pay an attention to disconnect the connector (P1001-P1102) which connected between Main C.B.A. and Power supply unit as shown below.

Fig. D5

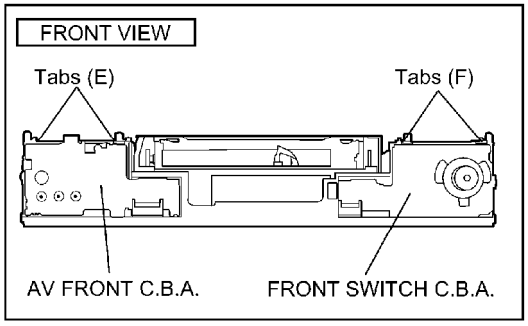


As above drawing, disconnect the connector by SCREW DRIVER from the direction (A). / Do not disconnect from direction (B) because it is possibility to damage the parts located by the connector.

4. REMOVAL OF THE AV FRONT C.B.A.& FRONT SWITCH C.B.A.

REMOVAL OF THE AV FRONT C.B.A.	
Unlock	**2 Tabs (E)**
REMOVAL OF THE FRONT SWITCH C.B.A.	
Unlock	**2 Tabs (F)**

Fig. D6

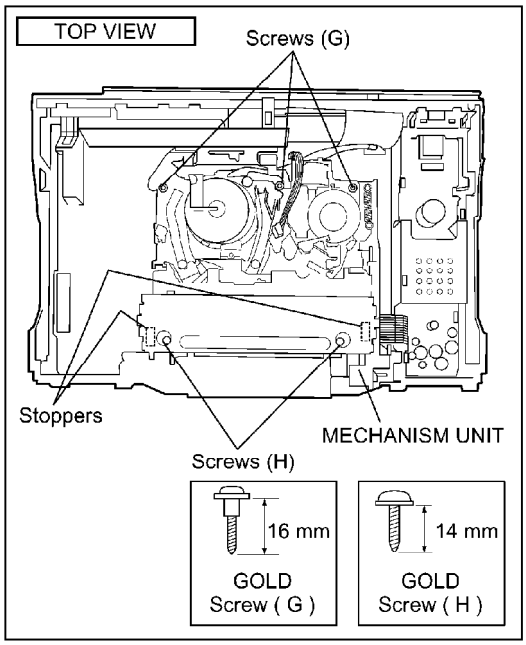


5. REMOVAL OF THE MECHANISM UNIT

Remove	**3 Screws (G)**
Remove	**2 Screws (H)**

Note:
Keep pressing 2 stoppers on Cassette Holder Plate and Press Cassette Holder Plate to the rear.

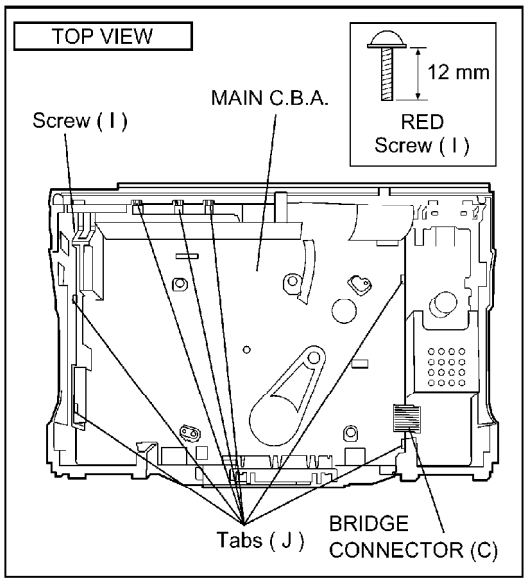
Fig. D7



6. REMOVAL OF THE MAIN C.B.A.

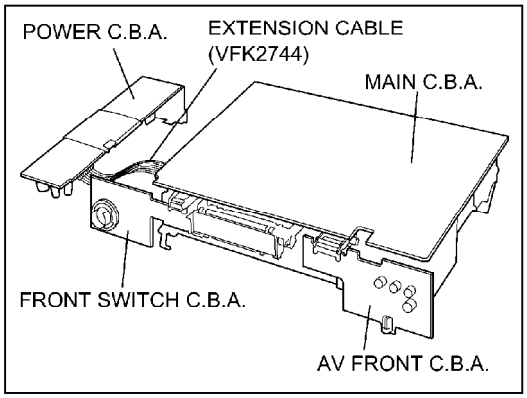
Disconnect	**Bridge Connector (C)**
Remove	**Screw (I)**
Unlock	**7 Tabs (J)**

Fig. D8



7. SERVICING POSITION

Fig. D9



3.2. MECHANICAL ADJUSTMENT PROCEDURES

Refer to the Service Manual for Z-Mechanism Chassis. / (Order No. VRD9802005C2)

3.3. ELECTRICAL ADJUSTMENT PROCEDURES

3.3.1. TEST EQUIPMENT

The following equipment is required for Electrical Adjustments.

1. Dual-Trace Oscilloscope

- Voltage Range:0.005-5V/div
- Frequency Range:DC-35MHz
- Probes: 10:1/1:1

2. Frequency Counter

- Frequency Range:0-10MHz

- Probes:1:1

3. Universal Counter
4. Digital Volt Meter (D.V.M.)
5. Video Sweep Generator
6. Sine-wave Generator
7. Video Pattern Generator
8. Monitor TV
9. DC Power Supply
10. VHS/S-VHS Blank Tape
11. VHS Alignment Tape

- Parts No.:VFJ8125H3F(PAL)

3.3.2. VCR SETTING

When no indication in the procedure, set each selector as follows.

1. TAPE SPEED:SP
2. CHANNEL:AV1/AV2/AV3
   (Set to signal input terminal number.)
3. S-VHS SW:ON
4. 3D DNR SW:ON

3.3.3. ADJUSTMENTS

ITEM	TP	ADJ.	MODE	INPUT	TAPE	M. EQ.	SPEC.	REMAI
PG / SHIFTER / ADJUSTMENT	---	---	PLAYBACK	---	ALIGN / MENT / TAPE / (PAL)	---	---	Refer to proce shown in Fig.
VIDEO EE LEVEL ADJUSTMENT	TP3002	VR3004	STOP	PAL / COLOUR BAR	---	OSCILLO / SCOPE	1.0±0.05 (Vp-p) (See Fig. E1)	1. VIDEO OUT mus terminated.
RECORDING / CURRENT / ADJUSTMENT	TW3001 (HOT) / TW3002 (COLD)	VR3002	SP / RECORDING	PAL / COLOUR BAR	S-VHS / BLANK TAPE	OSCILLO / SCOPE	C:56±4mVp-p / (See Fig.E2)	1. Set SVHS mode. 2. Short between T TWGND. 3. Connect a jumpe between TW3001(H TW3002(COLD).
VHS / FREQUENCY / RESPONSE / ADJUSTMENT	LINE- / OUT / (TP3002)	---	SP/LP / PLAYBACK / (SELF REC.)	VIDEO SWEEP / SIGNAL (See Fig. E3)	BLANK TAPE	OSCILLO / SCOPE / / VIDEO SWEEP GENERA - / TOR	SP: -1±1 (dB) (80-100%) (See Fig. E4)	1. VIDEO OUT mus terminated. Refer to proce shown in Fig.
VXO / FREE RUN / FREQUENCY ADJUSTMENT	TL7711	VC7701	---	---	---	FRE- / QUENCY / COUNTER	4433619± / 150Hz	1. Connect TL7714 2. Connect TL7712 3. Connect TL7713 4. Adjust the frequ VC7701.

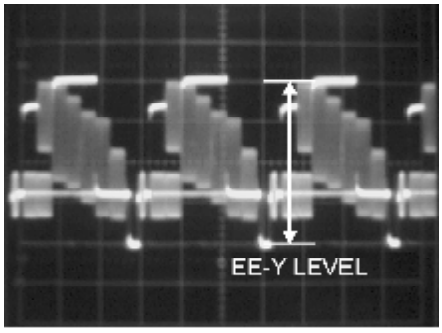
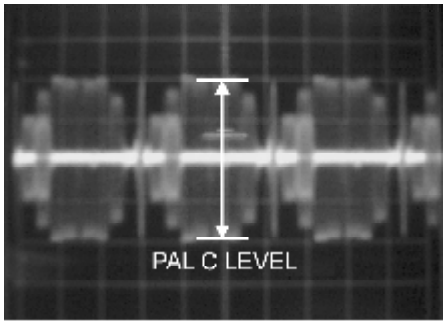
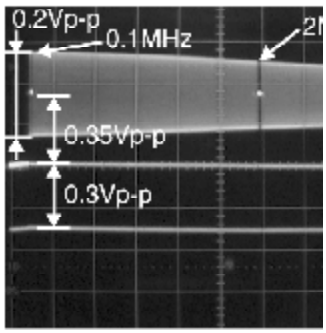
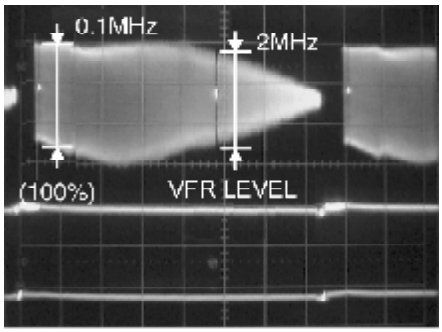
Fig. E1	Fig. E2	Fig. E3
		 CONDITION:BURST SIGI (0.3Vp-p) 75ohm TERMINATE
Fig. E4		

Fig. E1	Fig. E2	Fig. E3
		

3.3.4. PG SHIFTER ADJUSTMENT / (AUTOMATIC)

PROCEDURES	FIP Display
"Turn the Shuttle Ring to FF" and Press EJECT key simultaneously for 3 seconds.	
"Turn the Shuttle Ring to FF" and Press EJECT key simultaneously more twice.	
Press the EJECT key for 3 seconds.	
Press the CH UP key once.	
Insert the Alignment Tape. (PAL: VFJ81215H3F)	
This adjustment is automatically started. / (During the adjustment, the picture will be appeared on the monitor.)	
When this Adjustment is terminated, the following operation will be activated. -Adjustment completed: The tape will be ejected. -Adjustment incompleted: "F2*" is indicated on the FIP.Check the Servo/ System Control circuit and Cylinder Unit.	
To release Service Mode, "turn the Shuttle Ring to FF" and Press EJECT key simultaneously 6 times until the normal indication on the FIP.	

Fig. E5

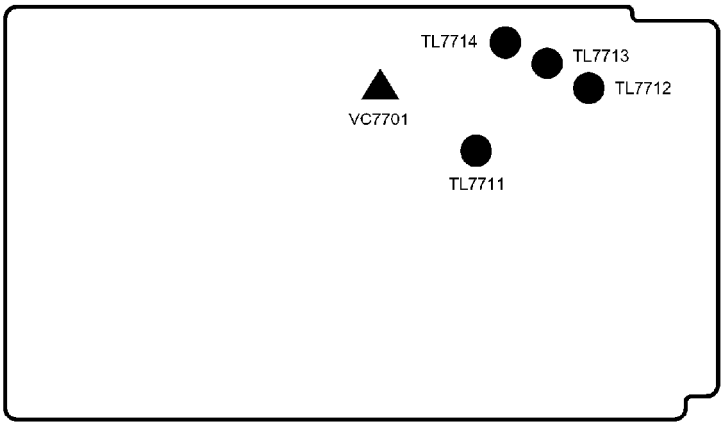
3.3.5. VHS VIDEO FREQENCY RESPONSE ADJUSTMENT

PROCEDURES	FIP Display
Set the 3D DNR SW to ON and the VHS SW to OFF. Input the Supply Video signal to VIDEO IN terminal make recording mode.	
"Turn the Shuttle Ring to FF" and press the EJECT key simultaneously for more than 3 seconds.	
"Turn the Shuttle Ring to FF" and press the EJECT key simultaneously twice.	
Press the EJECT key for 3 seconds.	
Press the CH UP and/or CH DOWN key until "11" is displayed on the FIP. ("Y(Luminance)" components is disappeared.)	
Insert the Self-recorded tape and playback it.	
Connect the Oscilloscope to : *CH1...Video Out (TW3002).*CH2...V.FREQ(TW6002)	
Press the "4" key on the Remote Controller. (Confirm That TW6002 becomes high (5V).)	
Adjust the Frequency response by pressing the "2" (increase) and/or "8" (decrease) key on the Remote Controller. (Refer to Fig.E4) Spec. must be refered to“ 3.3.3.“.	
To release Service Mode, "Turn the Shuttle Ring to FF" and press the EJECT key simultaneously 6 times until it would be a normal indication.	

Fig. E6

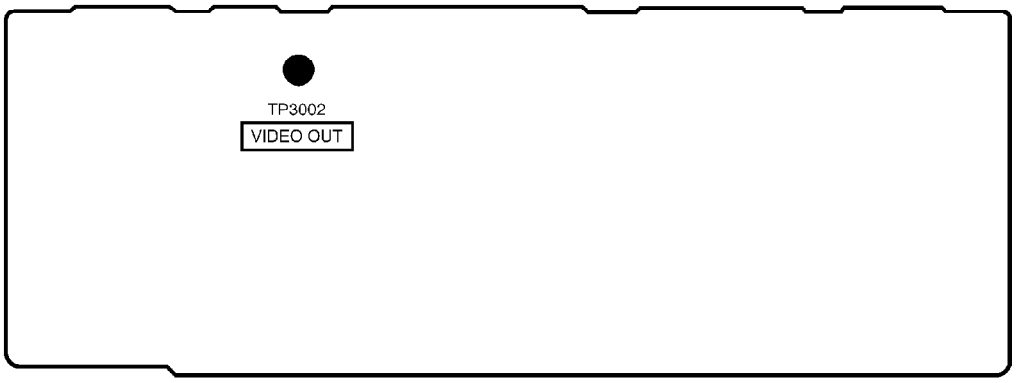
3.3.6. LOCATION OF TEST POINTS& CONTROLS

OSD PACK C.B.A.



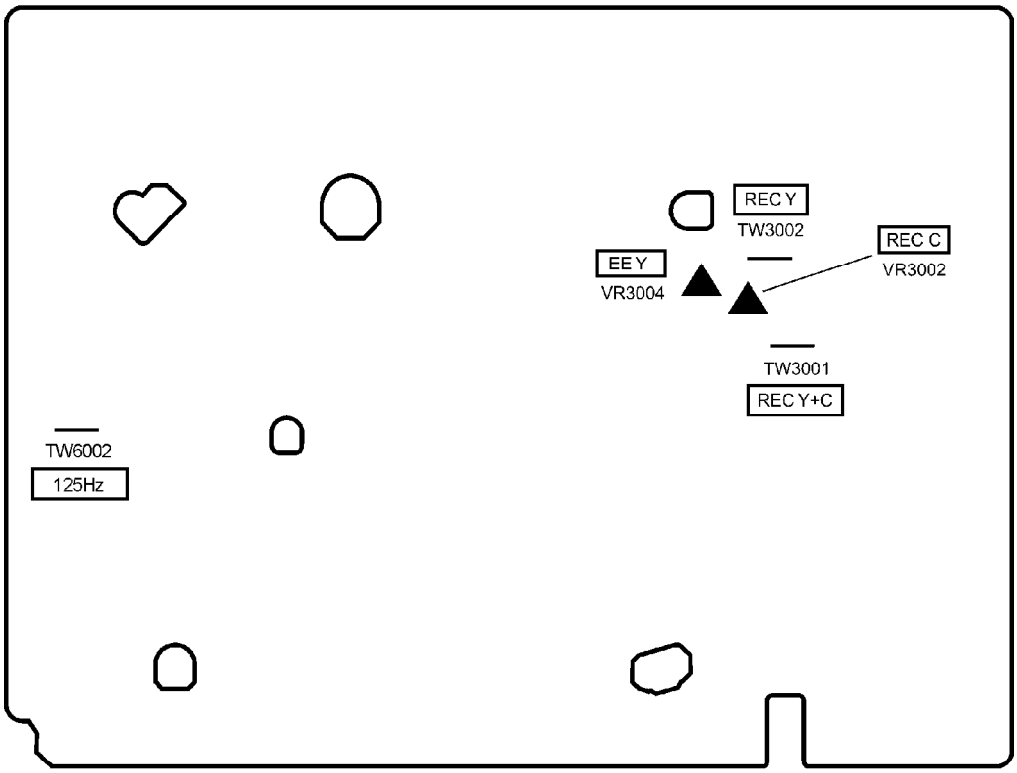
(FOIL SIDE)

INPUT/OUTPUT PACK C.B.A.

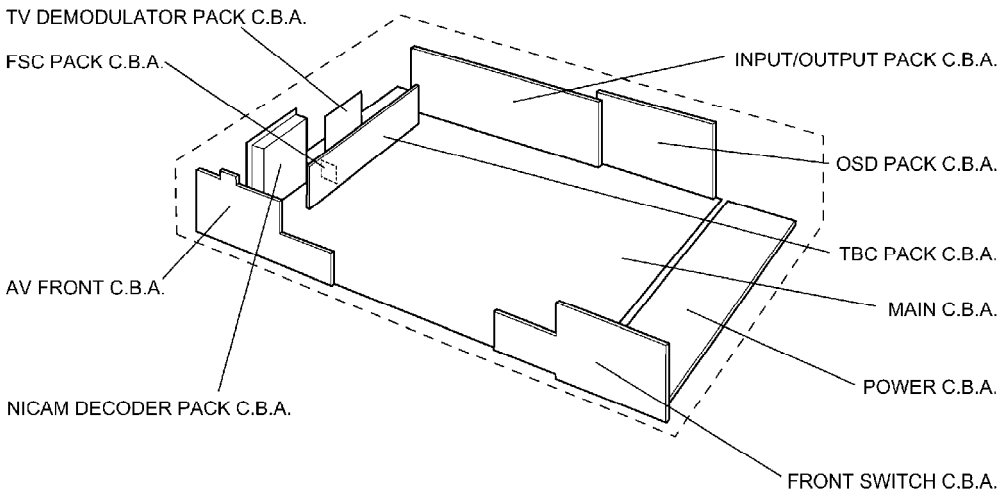


(FOIL SIDE)

MAIN C.B.A.



3.3.7. CIRCUIT BOARD LAYOUT

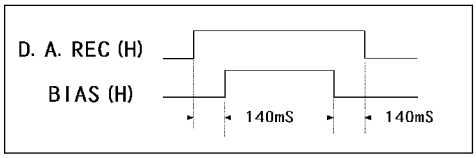


4. ABBREVIATIONS

5. INPUT/OUTPUT CHART

5.1. INPUT/OUTPUT CHART FOR IC6001

	TERMINAL NAME	I/O	DESCRIPTION	P-Off	S-P-Save	P. Failure
1	AUDIO.DEF(H)	O	Output terminal for Resetting the Decoder IC.	High	High	Low
2	FULL.ERASE(H)	O	Switching terminal for the Full-Erase head oscillation.	Low	Low	Low
3	AFC(S)	I	"S- Curve" input terminal from the Tuner.	In	In	In
4	AV3 S IN(L)	I	Input detection terminal for AV3-S-VHS.	In	In	In
5	V_MUTE(H)	O	Output control terminal for Video mute. High signal is outputted about 140msec when the channel is changed. High Signal is outputted about 500msec when the power is turned ON.	Low	Low	Low
6	Nor/Ser/T 1 /T2	I	Factory / Service mode setting terminal. Input Voltage / Mode More than 4.0V / NORMAL 2.5 - 4.0V / SERVICE 1.0 - 2.5V / TEST12 Less than 1.0V / TEST-1	In	In	In
7	S-PHOT	I	Input terminal for Tape End detection. Recordable part (Black)…More than 2.6V Un-recordable part (Whire)…Less than 2.4V.	In	In	In
8	T-PHOT	I	Input terminal for Tape beginning detection. Recordable part (Black)…More than 2.6V Un-recordable part (White)…Less than 2.4V.	In	In	In
9	TRACKING_ENVE	I	Input terminal of Video envelope detection for Auto tracking and CVC.	In	In	In
10	SQPB(H)	I	Input terminal for S-VHS Playback detection. The value to be applied to CVC is changed S-VHS and VHS.	In	In	In
11	CURRENT.LIMIT	O	Capstan motor current limit output	Low	Low	Low
12	F ADJUST	O	The voltage output terminal for Frequency response of Head adjustment.	Low	Low	Low
13	ART.V/H/N	O	This port supplies artificial vertical sync signal to stabilize the picture in special playback mode.	Low	Low	Low
14	REMOCON	I	Input terminal for remote control / digital link (Even if digital-link is used, process of microprocessor is the same.)	In	In	In
15	ROTARY.SW	O	Output terminal for Rotary switching signal.	Low	Low	Low
16	H.A.SW	O	Output terminal for Head AMP switching signal.	Low	Low	Low
17	ENVE.SLECT	I	This port receives the playback envelope signal level to select the video head in special playback mode.	In	In	In
18	VIDEO.H.SW	O	Output terminal for video head switching signal.	Low	Low	Low
19	AUDIO.H.SW	O	Output terminal for Audio head switching signal.	Low	Low	Low
20	REC(H)	O	Video/Audio signal recording/playback control.When the VCR is recording mode(refer to below), this terminal becomes "High" level.(VCR recording mode REC/PAUSE, INSERT/PAUSE, AV-INSERT/PAUSE).	Low	Low	Low
21	D.REC(H)	O	Output terminal for video signal on/off control. (This is used as timing of Video recording current, it synchronizes Head switching.)	Low	Low	Low
22	FLYING ERASE(H)	O	This port supplies high during a certain time from starting the recording to control the HI-FI audio recording current.	Low	Low	Low
23	D.FM.REC(H)	O	Hi-Fi audio recording on/off control.	Low	Low	Low
24	VIDEO.EE(L)	O	This port is low during EE mode(STOP,FF/REW,EJECT,REC/PASAUSE,INSERT/PAUSE, AV-INSERT/PAUSE).	Low	Low	Low
25	PLAY_REC(L)	O	Output terminal for voltage switching for capstan. Other than REC/PB : Always "High". Shuttle mode : Always "High".(including PB by shuttle mode.) After REC/PB model shift completion, it goes to "Low" after 5 seconds.	Low	Low	Low

	TERMINAL NAME	I/O	DESCRIPTION	P-Off	S-P-Save	P. Failure
26	D.A.REC(H)	O	Linear Audio recording timing control.(When the linear audio recording, this terminal becomes "H" in synchronizing with BIAS(H).(Effective (output) mode :REC,ADUB,AV-INSERT 	Low	Low	Low
27	BIAS(H)	O	Linear Audio bias switch control.(Refer to D.A.REC (H))	Low	Low	Low
28	TBC(H)	O	TBC Control output for LSI control IC.	Low	Low	Low
29	TBC MODE1	O	TBC Control output for LSI control IC.	Low	Low	Low
30	TBC MODE0	O	TBC Control output for LSI control IC.	Low	Low	Low
31	POS.SW3	I	Mechanism position input terminal	In	In	In
32	POS.SW2	I		In	In	In
33	POS.SW1	I		In	In	In
34	GND		GND	In	In	In
35	GND		GND	In	In	In
36	16M.START(H)	I	Clock source selection for starting reset.	In	In	In
37	5V(D)		Digital 5V.	In	In	In
38	16MHz.IN	I	16MHz Oscillator Input	In	STOP	STOP
39	16MHz.OUT	O	16MHz Oscillator Output	Out	STOP	STOP
40	GND(OSC)		GND	In	In	In
41	32KHz.IN	I	32KHz Oscillator Input	In	In	In
42	32KHz.OUT	O	32KHz Oscillator Output	Out	Out	Out
43	RESET(L)	I	This port is low during IC6001 resetting.	In	In	In
44	FIP(L)	O	FIP(Front Information Panel) ON/OFF switch. When the FIP OFF is selected on Menu screen besides VCR is stand by mode, this terminal becomes "L".	-	high	Low
45	FIP/OSD_CS	O	Chip Select terminal for FIP driver and OSD microprocessor. Sending the data to FIP : "L". Sending the data to OSD : "H".	-	Low	Low
46	VSYNC(L)	O	V sync detecting result output terminal. There is a V-Sync : "L" There is not a V-Sync : "High".	Low	Low	Low
47	PAL EP(H)	O	Tape speed output port. When either NTSC:10H or PAL:9H is set, this terminal becomes (H).	Low	Low	Low
48	CAL(H)	O	During Audio IC automatic adjustment is being progress, this terminal becomes (H).	Low	Low	Low
49	DNR(L)	O	During the DNR is being selected, this terminal becomes (L). DNR-ON :(L) DNR-OFF:(H).	High	Low	Low
50	HALF_WAVE(H)	O	Capstan driver switch (Full-wave/ Half-wave).	in	in	in
51	P.OFF(H)	O	During the Power is off , this terminal keeps (H).When the VCR power turns off, the (H) signal is supplied to Power off and/or Timer stand by circuit. Necessary case : Head cleaning, Timer programme confirmation, VPS/PDC stand by, ACS.Once (H) is supplied, it keeps supplying 160msec.	High	High	Low
52	FF/REW(L)	O	CTL Filter switch during FF/REW mode.	High	High	Low

P.SW3	P.SW2	P.SW1	Position(Mode)
O	O	O	EJECT
O	O	I	CASSETTE DOWN
O	I	O	REV, REV SLOW
O	I	I	MID(LOADING/UNLOADING)
I	O	O	PLAY/REC, STILL/PAUSE,CUE FWD SLOW, STOP3(Pinch Roller is touching with capstan shaft)
I	O	I	STOP
I	I	O	FF/REW
I	I	I	INTERMIDEATE

	TERMINAL NAME	I/O	DESCRIPTION	P-Off	S-P-Save	P. Failure
53	FM.MUTE(H)	O	Audio mute output port.(H) output : Power off, Head cleaning, Timer stand by, VPS/PDC stand by.CUE/REV/SLOW/STILL in the VV mode. When these mode is cancelled, (L) signal is outputted after keeping (H) condition about 600msec.	High	High	Low
54	MESECAM DET(H)	I	Broadcasting system input terminal for MESECAM video circuit control.	In	In	In
55	UNLOADING(H)	O	Loading motor control terminal.	Low	Low	Low
56	LOADING(H)	O	Loading motor control terminal.	Low	Low	Low
57	SP(H)	O	Tape speed control terminal.(H) condition : NTSC (2H), PAL (3H)	Low	Low	Low
58	SLEEP(L)	O	Super power save mode. This port becomes (L) when the "Super power save on" in power off mode	High	Low	Low
59	PAL-I/BG/DK	O	Output terminal for broadcast system to control the video circuit.	-	Low	Low
60	REC(H)	O	PB/REC switching terminal for Video/Audio circuit Deck mode is recording mode(REC/PAUSE,INSERT/PAUSE,AV-INSERT/ PAUSE), this port is High.	Low	Low	Low
61	TBC_LED(H)	O	LED control terminal for TBC/ON/OFF setting.	Low	Low	Low
62	SECAM(H)	I	Broadcasting system input terminal for SECAM video circuit control.	-	Low	Low
63	EDITTING(L)	I/O	Syncro-edit control terminal	-	Low	Low
64	PREROLL(H)	I/O	Syncro-edit control terminal	-	Low	Low
65	5P/T2.DATA.OUT	O	Edit 5Pin serial data output	-	Low	Low
66	5P/T2.DATA.IN	I	Edit 5Pin serial data input	-	In	In
67	5P/T2.CLOCK	O	Edit 5Pin serial clock	-	Low	Low
68	T-BUS/IC.OUT	O	Serial communication data output terminal FIP Driver / OSD u-com.	-	Low	Low
69	T-BUS/IC.IN	I	Serial communication data input terminal FIP Driver / OSD u-com.	-	In	In
70	T-BUS/IC.CLK	O	Serial communication clock terminal FIP Driver / OSD u-com.	-	Low	Low
71	IIC.CLOCK	O	Serial communication clock terminal (IIC) Tuner / FM Audio IC.	-	Low	Low
72	IIC.DATA	I/O	Serial communication data terminal (IIC) Tuner / FM Audio IC.	-	Low	Low
73	125Hz	O	Oscillator output for main clock adjustment	-	Low	Low
74	24uSEL(L)	O	Video head selection (24u/26u) output. Low : 24u is selected.	Low	Low	Low
75	POWER_FAIL(L)	I	Power failure detection	In	In	In
76	CAP.R/F	O	Capstan Reverse/Forward	0V	0V	Low
77	CAP.ET	O	Capstan Error Torque control	0V	0V	Low
78	CYL.ET	O	Cylinder Error Torque control	4.213V	4.213V	Low
79	S.REEL.PULSE	I	Supply Reel pulse input	In	In	In
80	T.REEL.PULSE	I	Take-up reel pulse input	In	In	In
81	STAB(L)	I	Detecting result input terminal of the Safety tab on the tape. With TAB :(L), Without TAB : (H)	In	In	In
82	POWER_KEY(L)	I	Key in terminal for VCR POWER ON/OFF	In	In	In
83	SHORT_DN	I	DC voltage (BIAS(H)) detection. When detecting High at BIAS (H) port during BIAS(H) is set to except high, compulsory power is turned off (Self test indication display F08).When detecting Low at BIAS (H) port during BIAS(H) is set to high, compulsory power is turned off (Self test indication display F07).	In	In	In
84	AV4 S IN(L)	I	Input signal detection for AV4-S-VHS input terminal	In	In	In
85	CAP.FG	I	Capstan FG input.	In	In	In
86	CYL.PFG	I	Cylinder PG/FG input	In	In	In
88	GND	-	GND	In	In	In
89	OREF	O	OP AMP output for 1/2 VDD reference.	Out	Out	Out
90	IREF	I	OP AMP input for 1/2 VDD reference.	In	In	In

	TERMINAL NAME	I/O	DESCRIPTION	P-Off	S-P-Save	P. Failure
91	CTL.HEAD(-)	I	CTL Head (-) terminal	In/Out	In/Out	In/Out
92	CTL.HEAD(+)	I	CTL Head (+) terminal	In/Out	In/Out	In/Out
93	CTL.AMP.SW	O	CTL AMP switching output.	Out	Out	Out
94	CTL.AMP.IN	I	CTL AMP input.	In	In	In
95	CTL.AMP.REF	I	CTL AMP reference input.	In	In	In
96	CTL.AMP.GND	-	CTL AMP GND	In	In	In
97	PB.CTL.OUT	O	Playback CTL AMP output	Out	Out	Out
98	5V(A)	-	5V (For Analogue circuit.)	In	In	In
99	5V(AD)	-	5V (For A/D converter)	In	In	In
100	S_CAS(L)	I	SVHS/VHS cassette detection. This port is low while the SVHS cassette tape or no cassette tape is inserted. This port is high while the VHS cassette tape is inserted.	In	In	In

5.2. INPUT/OUTPUT CHART FOR IC7701

Pin	PIN-NAME	I/O	Meaning	P.OFF	INITIAL
1	CVIN1	I	Video from YC	---	---
2	SECAMIN	I	Secam input for CG	---	---
3	SYNC/HOR	I	Horizontal sync	---	---
4	CVIN2	I	Video from I/O	---	---
5	CVIDEO2	O	Video to YC	---	---
6	VSS3	I	GND Data Slicer	---	---
7	P9.6/PROG(H)	O	I/O control to switch IIC bus.(Factory use) H:IIC bus is connected to AV2. L:IIC bus is not connected to AV2.	Low	Low
8	P9.5/SHUTTLE1	I	Shuttle input 1	---	---
9	P9.4/SHUTTLE2	I	Shuttle input 2	---	---
10	P9.3/SHUTTLE3	I	Shuttle input 3	---	---
11	P9.2/SHUTTLE4	I	Shuttle input 4	---	---
12	P9.1/JOG1	I	Jog dial 1 input	---	---
13	P9.0/JOG2	I	Jog dial 2 input	---	---
14	BYTE	I	L -> 16Bit external data bus, H -> 8 bit external data bus	---	---
15	CNVSS	I	Mem Exp. Mode: L -> extern, H -> internal memory only	---	---
16	P8.7	O	---	---	---
17	P8.6	O	---	---	---
18	/RESET(P.FAIL)	I	Reset Input (LOW level= reset active)	---	---
19	XOUT	O	Oscillator amplifier output, 10MHz	---	---
20	VSS	I	GND uCon	---	---
21	XIN	I	Oscillator amplifier input, 10MHz	---	---
22	VCC	I	Power uCon	---	---
23	P8.5/NMI	I	Non maskable interrupt, connected to Vcc	---	---
24	P8.4/ INT2 CS-TBUS	I	Chip select signal for timer bus (1=OSD ucon selected, 0=FIP selected)	---	---
25	P8.3/ INT1 P50 IN	I	P50 input	---	---
26	P8.2/ INT0 SLICEON IN	I	Slicer interrupt of Hsync (6-23) input, connected with PIN 39	---	---
27	P8.1/CID(L)	O	L = EE signal in PB mode during VBI REC, H = normal	High	High
28	P8.0/25Hz	O	25HZ output for Audio	---	---
29	P7.7/LANC IN	I	LANC input	---	---
30	P7.6/LANC OUT	O	LANC output	High	---
31	P7.5/YC SW IN	IN	YC/Normal SW input for P50 control.	IN	IN
32	P7.4/CPS(H)	O	Adjustment croma level. Tuner/AV1/AV2/AV3(CPS)/AV4(CPS) is H. AV3(CPN)/AV4(CPN)/VV is L.	Low	IN
33	P7.3/ B/W(H)	O	If killer data (TLK12A bit4) is 0(means Colour mode), set to Low. If killer data (TLK12A bit4) is 1(means B/W mode), set to High.	Low	IN
34	P7.2/SAT IR	O	Infrared code for SAT receivers	---	High
35	P7.1/IIC CLK	O	IIC CLK	---	High
36	P7.0/IIC DATA	O	IIC DATA	---	High
37	NC	---	---	---	---
38	VSS1	I	GND OSD digital	---	---
39	P11.8/SLICE_ON	O	Secam Mute / Slicer interrupt for Hsync (6-23) output, connected with PIN 26	---	---
40	P11.7/GRAY	O	---	---	---
41	P11.6/R	O	R output from CG	---	---
42	P11.5/G	O	G output from CG	---	---
43	P11.4/B	O	B output from CG	---	---
44	P11.3/BLNK	O	BLNK output from CG (characters on display)	---	---
45	P11.2/CSYN	O	horiz. Sync output from CG	---	---

Pin	PIN-NAME	I/O	Meaning	P.OFF	INITIAL
46	P11.1/EDO1	O	---	---	---
47	P11.0/EDO2 (VBI VALID)	O	VBI-data valid, encoding OK (once per line)	---	---
48	VDD1	I	Power OSD digital	---	---
49	NC	---	---	---	---
50	P6.7 (TL7705)	O	Test pin	---	---
51	P6.6 (TL7704)	O	Test pin	---	---
52	P6.5 (TL7703)	O	Test pin	---	---
53	P6.4 (TL7702)	O	Test pin	---	---
54	P6.3/SYS_LSN	O	Timer bus listen line	---	High
55	P6.2/SYS_TLK	I	Timer bus talk line	---	---
56	P6.1/SYS_CLK	I	Timer bus clock	---	---
57	P6.0/ P50_OUT	O	P50 output	---	Low
58	P5.7	I	---	---	---
59	P5.6 (NC)	O	---	Low	Low
60	P5.5 (TL7707)	O	Test pin	---	---
61	P5.4 (NC)	O	---	---	---
62	P5.3 (NC)	O	---	---	---
63	P5.2/ /RD	O	External memory read strobe (for EPROM and SRAM)	---	---
64	P5.1 (NC)	O	---	---	---
65	P5.0/ /WR	O	External memory write strobe (for SRAM)	---	---
66	P4.7 (NC)	O	---	---	---
68	P4.6/ /CS2	O	Chip select for SRAM	---	High
67	P4.5/ /CS1 (NC)	O	---	---	---
69	P4.4/ /CS0	O	Chip enable for external EPROM (0=EPROM enabled)	---	Low
70	NC	---	---	---	---
71	NC	---	---	---	---
72	NC	---	---	---	---
73	NC	---	---	---	---
74	NC	---	---	---	---
75	NC	---	---	---	---
76	P4.3 (A19)	O	A19 address line	---	---
77	P4.2 (A18)	O	A18 address line	---	---
78	P4.1 (A17)	O	A17 address line	---	---
79	P4.0 (A16)	O	A16 address line	---	---
80	P3.7 (A15)	O	A15 address line	---	---
81	P3.6 (A14)	O	A14 address line	---	---
82	P3.5 (A13)	O	A13 address line	---	---
83	P3.4 (A12)	O	A12 address line	---	---
84	P3.3 (A11)	O	A11 address line	---	---
85	P3.2 (A10)	O	A10 address line	---	---
86	P3.1 (A9)	O	A9 address line	---	---
87	VCC	I	Power uCon	---	---
88	P3.0 (A8)	O	A8 address line	---	---
89	VSS	I	GND uCon	---	---
90	P2.7 (A7)	O	A7 address line	---	---
91	P2.6 (A6)	O	A6 address line	---	---
92	P2.5 (A5)	O	A5 address line	---	---
93	P2.4 (A4)	O	A4 address line	---	---
94	P2.3 (A3)	O	A3 address line	---	---
95	P2.2 (A2)	O	A2 address line	---	---
96	P2.1 (A1)	O	A1 address line	---	---
97	P2.0 (A0)	O	A0 address line	---	---

Pin	PIN-NAME	I/O	Meaning	P.OFF	INITIAL
98	P1.7 (D15)	I/O	D15 data line	---	---
99	P1.6 (D14)	I/O	D14 data line	---	---
100	P1.5 (D13)	I/O	D13 data line	---	---
101	P1.4 (D12)	I/O	D12 data line	---	---
102	P1.3 (D11)	I/O	D11 data line	---	---
103	P1.2 (D10)	I/O	D10 data line	---	---
104	P1.1 (D9)	I/O	D9 data line	---	---
105	P1.0 (D8)	I/O	D8 data line	---	---
106	NC	---	---	---	---
107	NC	---	---	---	---
108	NC	---	---	---	---
109	P0.7 (D7)	I/O	D7 data line	---	---
110	P0.6 (D6)	I/O	D6 data line	---	---
111	P0.5 (D5)	I/O	D5 data line	---	---
112	P0.4 (D4)	I/O	D4 data line	---	---
113	P0.3 (D3)	I/O	D3 data line	---	---
114	P0.2 (D2)	I/O	D2 data line	---	---
115	P0.1 (D1)	I/O	D1 data line	---	---
116	P0.0 (D0)	I/O	D0 data line	---	---
117	P10.7/FSCREEN(H)	O	Fullscreen high signal, (0=no OSD fullscreen, 1=OSD fullscreen)	---	High
118	P10.6/BWBOX(L)	O	If killer data (TLK12A bit4) is 0(means Colour mode) , set to High. If killer data (TLK12A bit4) is 1(means B/W mode) and Full screen, set to High. If killer data (TLK12A bit4) is 1(means B/W mode) and ex. Full screen, set to Low.	---	High
119	P10.5/ S/M(H)[MIX_ON(H)]	O	ex. superimpose is L superimpose and PAL signal is L. superimpose and ex.PAL signal is H.	Low	IN
120	P10.4 (NC)	O	---	---	---
121	P10.3/MODE (CS_EE)	O	Write enable for EEPROM (1=read only, 0=write enabled)	---	High
122	P10.2/DC L CH	IN	audio DC level for L channel	---	---
123	P10.1/DC R CH	IN	audio DC level for R channel	---	---
124	AVSS	I	GND uCon analog, for A/D converter	---	---
125	P10.0/AN0/AV-8(CPB(H)	I	AV2-8, PIN 8 of AV2, for H/L and wide	---	---
126	VREF	IN	Reference voltage for A/D converter	---	---
127	AVCC	I	Power uCon analog	---	---
128	P9.7/FSCREEN(H)	O	same as PIN 117	---	High
129	VDD1	I	Power OSD digital	---	---
130	VSS1	I	GND OSD digital	---	---
131	VERT	I	---	---	---
132	LP3	I/O	LP3 (filter for internal PLL)	---	---
133	LP4	I/O	LP4 (filter for internal PLL)	---	---
134	LP1	I/O	LP1 (filter for internal PLL)	---	---
135	LP2	I/O	LP2 (filter for internal PLL)	---	---
136	NC	---	---	---	---
137	FSCIN	I	4,43 MHz input	---	---
138	NC	---	---	---	---
139	SVREF	I	Sync Level for CG	---	---
140	VSS2	I	GND Sync Sep for CG	---	---
141	CVIDEO1	O	Video to I/O	---	---
142	VDD2	I	Power Sync Sep for CG	---	---
143	VSS3	I	GND Data Slicer	---	---
144	VDD3	I	Power Data Slicer	---	---

6. WAVEFORM TABLE

7. INTERNAL BLOCK OF ICs

7.1. IC2502 (AN3811NK)

SYSTEM CONTROL& SERVO SECTION IN MAIN SCHEMATIC DIAGRAM

7.2. IC3704 (C0JBAQ000144)

TBC PACK SCHEMATIC DIAGRAM

7.3. IC3707 (C0JBAF000407)

TBC PACK SCHEMATIC DIAGRAM

7.4. IC3708 (TCHC4538AF)

TBC PACK SCHEMATIC DIAGRAM

7.5. IC3901 (AN3581S)

INPUT/OUTPUT PACK SCHEMATIC DIAGRAM

7.6. IC3902 (LA73021M)

INPUT/OUTPUT PACK SCHEMATIC DIAGRAM

7.7. IC4501 (TDA9615H)

AUDIO SECTION IN MAIN SCHEMATIC DIAGRAM

7.8. IC7301 (TDA9874AH)

NICAM DECODER PACK SCHEMATIC DIAGRAM

7.9. IC7706 (M52390FP)

OSD PACK SCHEMATIC DIAGRAM

8. BLOCK DIAGRAMS

8.1. SYSTEM CONTROL& SERVO SECTION BLOCK DIAGRAM

8.2. VIDEO SECTION BLOCK DIAGRAM

8.3. AUDIO SECTION BLOCK DIAGRAM

9. SCHEMATIC DIAGRAMS

9.1. POWER SCHEMATIC DIAGRAM

9.2. SYSTEM CONTROL& SERVO/ TIMER SECTION IN MAIN SCHEMATIC DIAGRAM

9.3. VIDEO SECTION IN MAIN SCHEMATIC DIAGRAM

9.4. AUDIO/ RF SECTION IN MAIN SCHEMATIC DIAGRAM

9.5. CAPSTAN UNIT SCHEMATIC DIAGRAM

9.6. INPUT/OUTPUT PACK SCHEMATIC DIAGRAM

9.7. OSD PACK SCHEMATIC DIAGRAM

9.8. FRONT SWITCH SCHEMATIC DIAGRAM

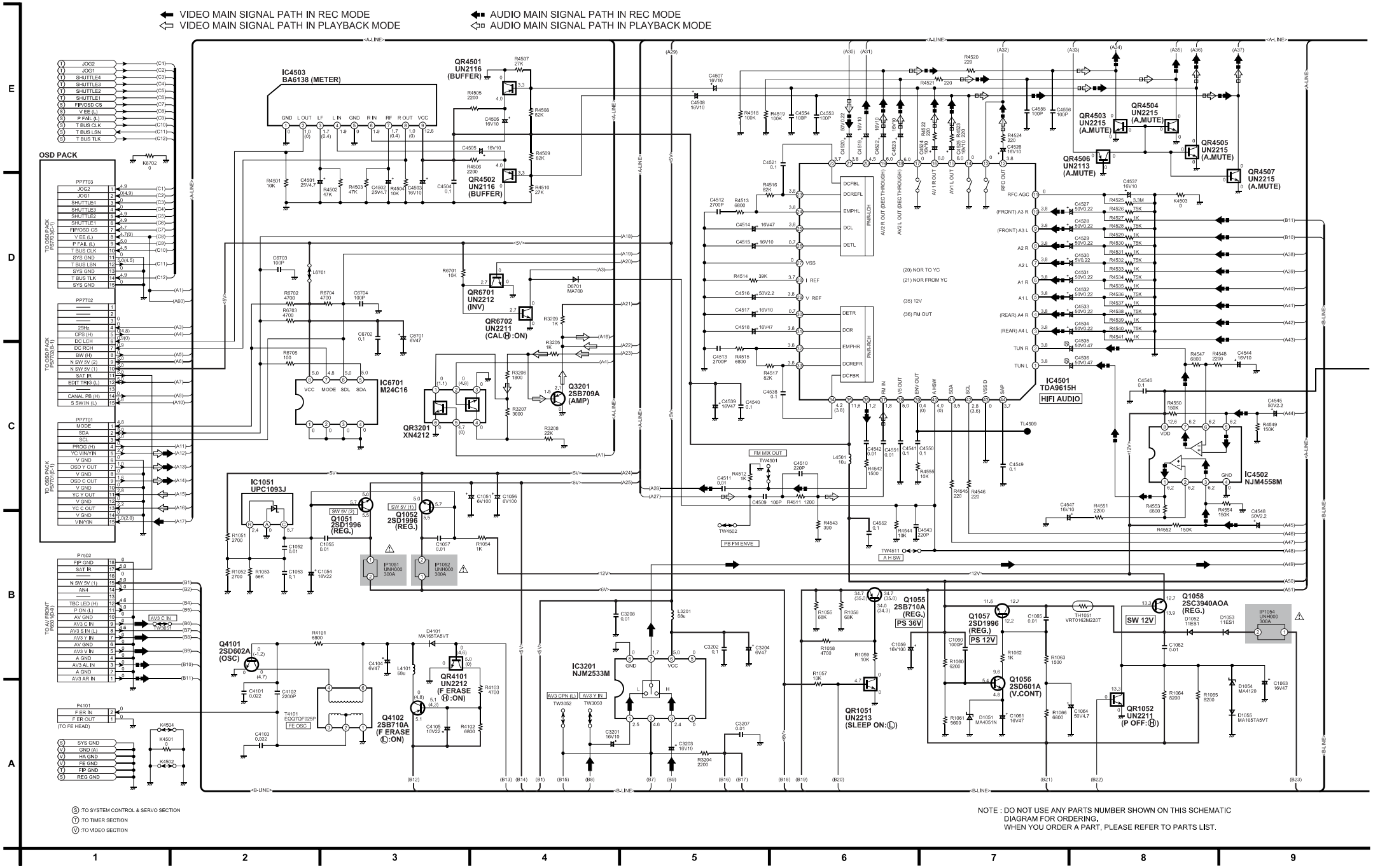
9.9. AV FRONT SCHEMATIC DIAGRAM
9.10. TBC/ FSC PACK SCHEMATIC DIAGRAM
9.11. HEAD AMP SCHEMATIC DIAGRAM
9.12. TV DEMODULATOR PACK SCHEMATIC DIAGRAM
9.13. NICAM DECODER PACK SCHEMATIC DIAGRAM
10. CIRCUIT BOARD ASSEMBLIES
10.1. POWER C.B.A.
10.2. MAIN C.B.A.
10.3. INPUT/OUTPUT PACK C.B.A.
10.4. OSD PACK C.B.A.
10.5. FRONT SWITCH C.B.A.
10.6. AV FRONT C.B.A.
10.7. TBC PACK C.B.A.& FSC PACK C.B.A.
10.8. HEAD AMP C.B.A.
10.9. TV DEMODULATOR PACK C.B.A.
10.10. NICAM DECODER PACK C.B.A.
11. EXPLODED VIEWS
11.1. CHASSIS PARTS SECTION

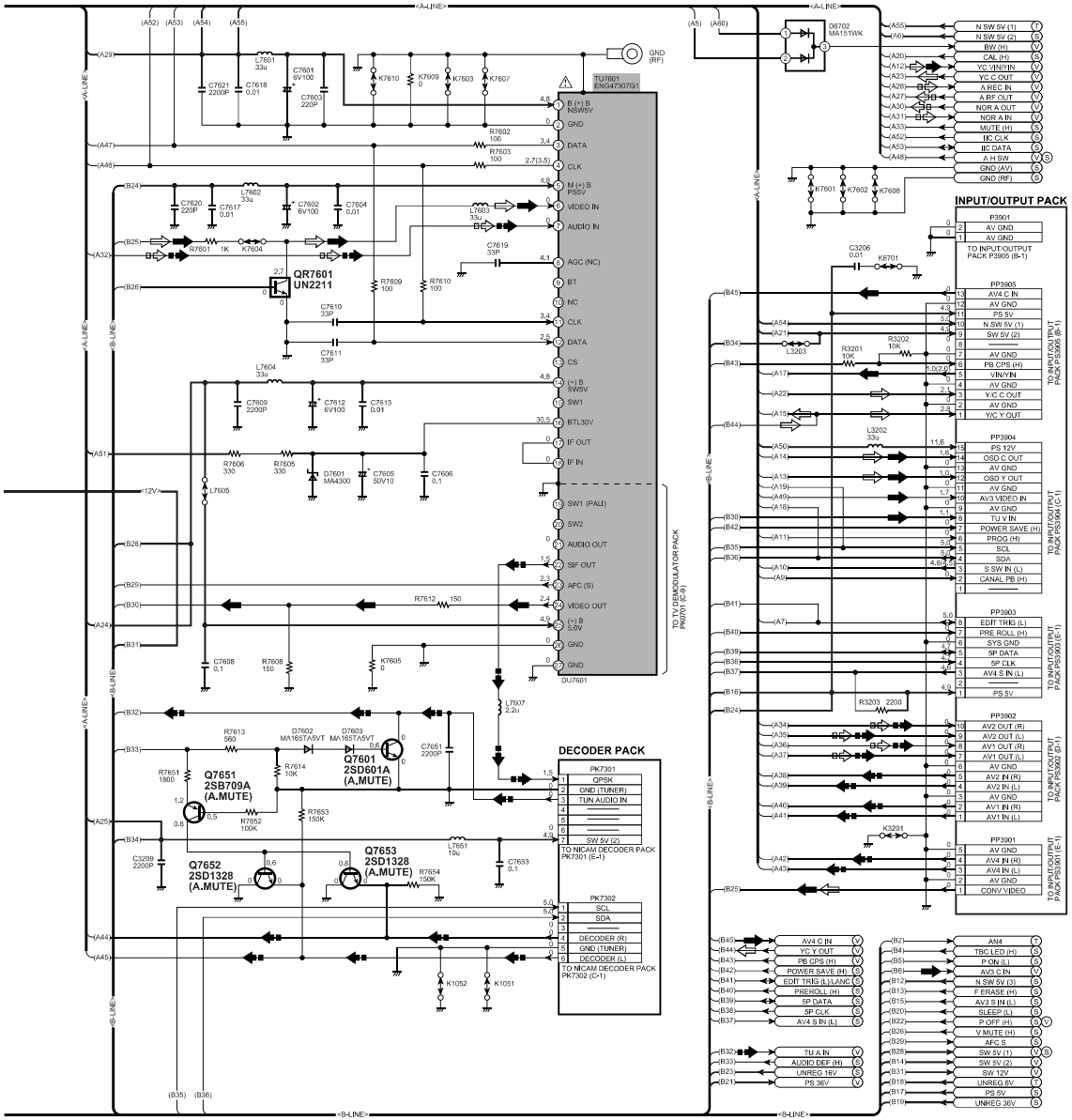
443NT [L]	4.43 NTSC Ⓛ
A. COMP	AUDIO COMPONENT SIGNAL
A. COMPO	AUDIO COMPONENT SIGNAL
A. D.P [L]	AUDIO DUBBING PAUSE Ⓛ
A. D/L [L]	AUDIO DUBBING PAUSE Ⓛ
A. DEF [S]	AUDIO DEFEAT
A. DEF [S] [L]	AUDIO DEFEAT
A. DUB P [L]	AUDIO DUBBING PAUSE Ⓛ
A. DUB [H]	AUDIO DUBBING Ⓗ
A. ERASE	AUDIO ERASE
A. H. SW	AUDIO HEAD SWITCHING PULSE
A. HEAD [R]	AUDIO HEAD (REC)
A. HEAD [W]	AUDIO HEAD (PLAY)
A. IN [L]	AUDIO INPUT (L)
A. IN [R]	AUDIO INPUT (R)
A. MUT [H]	AUDIO MUTE Ⓗ
A. MUTE [H]	AUDIO MUTE Ⓗ
A. OUT [L]	AUDIO OUTPUT (L)
A. OUT [R]	AUDIO OUTPUT (R)
A. RF OUT	AUDIO RF SIGNAL OUTPUT
A/VS/S. DATA	AV SW/SERIAL DATA
AC ONLINE	AC ONLINE
AC. O/EE. H	AC ONLINE/EE Ⓗ
AFC S C	AFC S CURVE
AFC [S]	AFC S CURVE
AFC. DEF	AFC DEFEAT
ARFC OUT	AUDIO RF SIGNAL OUTPUT
ART. V	ARTIFICIAL VERTICAL SYNC SIGNAL
ART. V. MM	ARTIFICIAL VERTICAL SYNC SIGNAL MONO MULTI
ART. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL Ⓗ/NORMAL
AT. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL
ATSW/TEST/NOR/SE	TEST/NORMAL/SERVICE
AUDIO IN [L]	AUDIO INPUT (L)
AUDIO IN [R]	AUDIO INPUT (R)
AUDIO OUT [L]	AUDIO OUTPUT (L)
AUDIO OUT [R]	AUDIO OUTPUT (R)
AUDIO SELECT [H]	AUDIO SELECT Ⓗ
AUDIO. L	AUDIO (L)
AUDIO. R	AUDIO (R)
AV CNT	AV CONTROL
AV CTL	AV CONTROL
AV CTL/S. CLK	AV CONTROL/SERIAL CLOCK
AV. C.M.	AV CONTROL MODE
AVCNT/METER. R	AV CONTROL/LEVEL METER (R)
AVSW/METER. L	AV SW/LEVEL METER (L)
B MODE. H	B MODE Ⓗ
B.G.P	BURST GATE PULSE
BACKUP 5V	BACK UP 5V
BAND. U.E.	BAND U
BANDVL. D	BAND VL
BI/MI [L]	BILINGUAL/MIX Ⓛ
BIL	BILINGUAL
BIL [L]	BILINGUAL Ⓛ
BIL. [H]	BILINGUAL Ⓗ
BIL/M1 [L]	BILINGUAL Ⓛ
BS CLOCK	BS CLOCK
BS DATA	BS DATA
BS LCH IN	BS L CHANNEL INPUT
BS MIX [H]	BS MIX Ⓗ
BS MON [H]	BS MONITOR Ⓗ
BS MONI [H]	BS MONITOR Ⓗ
BS RCH IN	BS R CHANNEL INPUT
BS VIDEO	BS VIDEO SIGNAL
BS VIDEO/BS1	BS VIDEO SIGNAL
BS [H]	BS Ⓗ
BS. LEVEL	BS LEVEL
BS. M [H]	BS MONITOR Ⓗ
BS/VTR [H]	BS/VTR Ⓗ
BUS CLK	BUS CLOCK
BUS LSN	BUS LISTEN
BUS TLK	BUS TALK
BUZZER	BUZZER
CAP EC	CAPSTAN TORQUE CONTROL
CAP M GND	CAPSTAN MOTOR GND
CAP. ET	CAPSTAN TORQUE CONTROL
CAP. FG1	CAPSTAN FG1 PULSE
CAP. FG2	CAPSTAN FG2 PULSE
CAS. SW	CASSETTE SW
CCN	PLAYBACK CONTROL SIGNAL (–)
CCP	PLAYBACK CONTROL SIGNAL (+)
CHM	CONTROL SIGNAL (+)
CHP	CONTROL SIGNAL (–)
CINEM [L]	CINEMA Ⓛ
CINEMA [L]	CINEMA Ⓛ
CINEMA/MIX	CINEMA/MIX
CKL	RATCH LOCK
CKS	SHIFT LOCK
CL	CLOCK
CLK	CLOCK
CLK (C.G)	CLOCK
CLOCK. IN	CLOCK INPUT
CLP	CLAMP
COL/B/W/NOR	COLOUR/BLACK & WHITE/NORMAL
COLOR [H]	COLOUR Ⓗ
CONV	CONVERTOR
CS	CHIP SELECT
CTL GND	CONTROL GND
CTL HEAD [+]	CONTROL HEAD (+)
CTL HEAD [–]	CONTROL HEAD (–)
CTL [+]	CONTROL HEAD (+)
CTL [–]	CONTROL HEAD (–)
CUE BIAS	CUE BIAS
CURRENT LIM	CURRENT LIMMITER
CYL ET	CYLINDER TORQUE CONTROL

CYL GND	CYLINDER GND
D.F.M. REC [H]	DELAIED FM RECORDING Ⓗ
D. FM REC [L]	DELAIED FM RECORDING Ⓛ
D. GND	DIGITAL GND
D. REC [H]	DELAYED RECORDING Ⓗ
D4/S. LED	D4/STILL LED
D4/STILLED	D4/STILL LED
DAC [CLK]	TUNER DAC (CLOCK)
DAC/FSCS	TUNER DAC/FS CHIP SELECT
DAREC [H]	DELAYED AUDIO RECORDING Ⓗ
DATA	DATA
DECODER [L]	DECODER (L)
DECODER [R]	DECODER (R)
DEW	DEW
DEW SNS	DEW SENSOR
DFMRE [H]	DELAYED FM AUDIO RECORDING Ⓗ
E. REC 5V	EXCEPT RECORDING 5V
EC	ERROR TORQUE CONTROL
ECR	ERROR TORQUE CONTROL
	REFERENCE VOLTAGE
EDT TRIG [L]	EDIT TRIGGER Ⓛ
EDIT [H]	EDIT Ⓗ
EE [H]	EE Ⓗ
EE [H]/INS [M]	EE Ⓗ/INSERT Ⓜ
EE. VV. TR	EE/VV/TRICK PLAY
EJECT. PO	EJECT POSITION
EJECT/VDET	EJECT/REVERSE SLOW LOCK
ENV. SEL	ENVELOPE SELECT
ENVE. OUT	ENVELOPE OUTPUT
ENVE. SEL	ENVELOPE SELECT
ENV SELECT	ENVELOPE SELECT
EP [H]	LP Ⓗ
EP/LP [H]	LP Ⓗ
EP/LP/SP	LP/SP
EP/SS [H]	LP/SLOW/STILL/STOP Ⓗ
EPROMCS	EPROM CHIP SELECT
EX. REC 5V	EXCEPT RECORDING 5V
FF/REW [L]	FIRST FORWARD/REWIND Ⓛ
FG1 IN	FG1 PULSE INPUT
FG2 IN	FG2 PULSE INPUT
FILTER ADJUSTMENT	FILTER ADJUSTMENT
FLY ERASE [H]	FLYING ERASE HEAD ON Ⓗ
FLY ON [H]	FLYING ERASE HEAD ON Ⓗ
FLY. E [H]	FLYING ERASE HEAD ON Ⓗ
FM MUT [H]	FM AUDIO MUTE Ⓗ
FM MUTE [H]	FM AUDIO MUTE Ⓗ
FM OUT [L]	FM OUTPUT (L)
FM OUT [R]	FM OUTPUT (R)
FM PACK OUT [L]	FM PACK OUTPUT (L)
FM PACK OUT [R]	FM PACK OUTPUT (R)
FM/BS SEL [L]	FM/BS SELECT (L)
FM/BS SEL [R]	FM/BS SELECT (R)
FS. CLK	FS CLOCK
FUL. E [H]	FULL ERASE HEAD ON Ⓗ
FULL. E [H]	FULL ERASE HEAD ON Ⓗ
FULL. E. 12V	FULL ERASE 12V
GND [A]	GND (ANALOG)
GND [TU]	GND (TUNER)
GND/N. SW. 12V	GND/NON SW 12V
H. SYNC	HORIZONTAL SYNC
H. AMP. SW	HEAD AMP SW PULSE
H. P <R>	HEAD PHONE (R)
H. P <L>	HEAD PHONE (L)
H. P GND	HEAD PHONE GND
H. P OUT [L]	HEAD PHONE OUTPUT (L)
H. P OUT [R]	HEAD PHONE OUTPUT (R)
H. SW	HEAD SW PULSE
HEAD PHONE [L]	HEAD PHONE (L)
HEAD PHONE [R]	HEAD PHONE (R)
HEAD SW	HEAD SW
HEATER [+]	HEATER (+)
HEATER [–]	HEATER (–)
HSS	HORIZONTAL SYNC SIGNAL
HTR [+]	HEATER (+)
HTR [–]	HEATER (–)
I RFE	REFERENCE CURRENT
ICL	CONTROL AGC CIRCUIT
IF	INTERMEDIATE FREQUENCY
IN SELA1	INPUT SELECT A1 POSITION
IN SELA2	INPUT SELECT A2 POSITION
IN SELA3	INPUT SELECT A3 POSITION
INS L/R [L]	INSERT Lch/Rch Ⓛ
INS. [H]	INSERT Ⓗ
INSEL A1	INPUT SELECT A1 POSITION
INSEL A2	INPUT SELECT A2 POSITION
INSERT	INSERT
INSERT [H]	INSERT Ⓗ
IO CS	INPUT/OUTPUT CHIP SELECT
JOG1	JOG1
JOG S3 LED/FOWRD	JOG LED/FORWARD LED
JOG/F. LED	JOG LED/FORWARD LED
JSB [H]	JSB Ⓗ
JST. CLCK	JUST CLOCK
JST. CLK	JUST CLOCK
JST. CLOCK	JUST CLOCK
L. OUT	Lch OUTPUT
L. CH [H]	Lch Ⓗ
L. CH [L]	Lch Ⓛ
LED (MAIN)	LED (MAIN)
LED (STEREO)	LED (STEREO)
LED (SUB)	LED (SUB)
LED CKL	LED SERIAL CLOCK
LED CKS	LED SERIAL CLOCK
LED DATA	LED SERIAL DATA
LINE IN 1 [L]	LINE INPUT 1 (L)
LINE IN 1 [R]	LINE INPUT 1 (R)
LINE IN 2 [L]	LINE INPUT 2 (L)
LINE IN 2 [R]	LINE INPUT 2 (R)
LINE IN V	LINE INPUT VIDEO
LINE IN [L]	LINE INPUT (L)

LINE IN [R]	LINE INPUT (R)	P-OFF [H]	POWER OFF Ⓗ
LINE OUT [L]	LINE OUTPUT (L)	P-OFF [L]	POWER OFF Ⓛ
LINE OUT [R]	LINE OUTPUT (R)	P. FAIL	POWER FAILURE DETECT
LP [H]	LP Ⓗ	P. OFF [H]	POWER OFF Ⓗ
LPTRI [L]	LP TRICK PLAY Ⓛ	P. OFF [L]	POWER OFF Ⓛ
Lch/A. DUB	Lch/AUDIO DUBBING	PAL [H]	PAL Ⓗ
M GND	MOTOR GND	PAL [L]/NTSC [H]	PAL Ⓛ/NTSC Ⓗ
M REG	MOTOR REGULATOR	PB ADJ OUT	PLAYBACK ADJUST OUTPUT
MAIN OUT	MAIN OUTPUT	PB OUT	PLAYBACK OUTPUT
MAIN [L]	MAIN Ⓛ	PB. H	PLAYBACK Ⓗ
MAIN/MONO	MAIN/MONAURAL	PFG	PG/FG
MAX IN	MAXIMAM INPUT	PHOTSN +B	PHOTO SENSOR +B
MES [H]	MESECAM Ⓗ	PICT. CNT	PICTURE CONTROL
MESE [H]	MESECAM Ⓗ	PLAY LED/RVS LED	PLAY LED/REVERSE LED
MESE [L]	MESECAM Ⓛ	PLAY. PO	PLAY POSITION
METER 5V	LEVEL METER 5V	PLAY/R. LED	PLAY LED/REVERSE LED
METER [L]	LEVEL METER (L)	PLY/DEW	PLAY/DEW Ⓗ
METER [R]	LEVEL METER (R)	POWER OFF [L]	POWER OFF Ⓛ
METER. L/AVS	LEVEL METER (L)	PREROLL [H]	PREROLL Ⓗ
METER. R/AVC	LEVEL METER (R)	PWRFAIL	POWER FAILURE DETECT
MI/BI [L]	MIX Ⓗ/BILIGUAL	R. CH [H]	Rch Ⓗ
MIC GND	MIC GND	R. CH [L]	Rch Ⓛ
MIC IN	MIC INPUT	R. ST	RESET
MIC IN [L]	MIC INPUT (L)	R/S/F	REVERSE Ⓗ/STOP Ⓜ/FORWARD Ⓛ
MIC IN [R]	MIC INPUT (R)	RCH [H]	Rch Ⓗ
MIC [H]	MIC Ⓗ	REC 12V	RECORDING 12V
MIX [H]	MIX Ⓗ	REC CHROMA	RECORDING CHROMINANCE SIGNAL
MIX [H]/CINEMA [L]	MIX Ⓗ/CINEMA SOUND Ⓛ	REC H	RECORDING Ⓗ
MIX/CINE	MIX Ⓗ/CINEMA SOUND Ⓛ	REC IN	RECORDING INPUT
MIX/CINEMA [L]	MIX Ⓗ/CINEMA SOUND Ⓛ	REC OUT [L]	RECORDING OUTPUT Ⓛ
MN. H/M. L	MONAURAL Ⓗ/MAIN Ⓛ	REC START	RECORDING START
MN. H/MAI. L	MONAURAL Ⓗ/MAIN Ⓛ	REC VR [C]	RECORDING VOLUME (COMMON)
MN2/MES. L	MONAURAL 2/MESECAM Ⓛ	REC VR [L]	RECORDING VOLUME (L)
MODE SEL	AUDIO MODE SELECT	REC VR [R]	RECORDING VOLUME (R)
MODE SW	AUDIO MODE SW	REC Y	RECORDING LUMINANCE SIGNAL
MODE. S. IN	AUDIO MODE SELECT INPUT	REC [H]	RECORDING Ⓗ
MODE. S. OUT	AUDIO MODE SELECT OUTPUT	REC. C	RECORDING CHROMINANCE SIGNAL
MONO [H]	MONAURAL Ⓗ	REC. Y	RECORDING LUMINANCE SIGNAL
MONO [H]/MAIN [L]	MONAURAL Ⓗ/MAIN Ⓛ	REC/EE CTL	RECORDING/EE CONTROL
MONO2 [L]	MONAURAL 2	REEL-T	REEL PULSE (TAKE-UP)
MONO2/MESE [FM(L)]	MONAURAL 2/MESECAM (FM Ⓛ)	REEL-S	REEL PULSE (SUPPLY)
MOTOR GND	MOTOR GND	REGULATOR FILTER	REGULATOR FILTER
MUTE	MUTE	RESET	RESET
N. A. REC [L]	NORMAL AUDIO RECORDING	REV M F/R	REVIEW MOTOR FORWARD/REVERSE
N. SW 12V	NON SW 12V		
N. SW. 5. DET	NON SW 5V DETECT	REV M V1	REVIEW MOTOR V1
NICAM	NICAM	REV M V2	REVIEW MOTOR V2
NICAM [L]	NICAM Ⓛ	REV MOTOR F/R	REVIEW MOTOR FORWARD/REVERSE
NOL [H]	PAL Ⓗ/4.43 NTSC Ⓜ/3.58 NTSC Ⓛ		
NOR/SOFT [H]	NORMAL/SOFT TAPE PLAY Ⓗ	REV MOTOR V1	REVIEW MOTOR V1
NORMAL [H]	NORMAL Ⓗ	REV MOTOR V2	REVIEW MOTOR V2
NR BIAS	NR BIAS	REV MOTOR [+]	REVIEW MOTOR (+)
NTSC [L]	NTSC Ⓛ	REV MOTOR [–]	REVIEW MOTOR (+)
OCH	CONTROL AGC CIRCUIT	REV. M. GND	REVIEW MOTOR GND
OUT	OUTPUT	RF. CHROMA	RF CHROMINANCE SIGNAL

RF OUT	RF OUTPUT	SYSCON 5V	SYSTEM CONTROL 5V
RF Y	RF LUMINANCE SIGNAL	SYSTEM	SYSTEM SW
RF. Y. IN	RF LUMINANCE SIGNAL INPUT	T-PHOTO	TAKE-UP PHOTO TRANSISTOR
RF. Y. OUT	RF LUMINANCE SIGNAL OUTPUT	T-RL. PLS	TAKE-UP REEL PULSE
ROTAR. SW	ROTARY SW	T. BUSCLK	TIMER BUS CLOCK
ROTARY	ROTARY SW	T. BUSLSN	TIMER BUS LISTEN
RST	RESET	T. BUSTLK	TIMER BUS TALK
RST [L]	RESET Ⓛ	T. END [L]	TAPE END Ⓛ
Rch/INST	Rch/INSERT	T. PHOTO	TAKE-UP PHOTO TRANSISTOR
S IN	SERIAL DATA INPUT	TAPE END [L]	TAPE END Ⓛ
S OUT	SERIAL DATA OUTPUT	TAPE END [L]/CAM	TAPE END Ⓛ/CAMERA PAUSE
S-PHOTO	SUPPLY PHOTO TRANSISTOR	TEST	TEST MODE
S-RL. PLS	SUPPLY REEL PULSE	TPZ	TRAPEZOIDAL WAVE CIRCUIT
S. CLK	SERIAL CLOCK	TRIC [L]	TRIC PLAY Ⓛ
S. CLK/AV	SERIAL CLOCK/AV	TRICK [L]	TRIC PLAY Ⓛ
S. DATA	SERIAL DATA	TRK. ENV	AUTO TRACKING ENVELOPE DETECT
S. DATA/A	SERIAL DATA	TU. AUDIO	TUNER AUDIO
S. PHOTO	SUPPLY PHOTO TRANSISTOR	TU. GND	TUNER GND
S. TAB [L]	SAFETY TAB SW ON Ⓛ	TU. V. IN	TUNER VIDEO SIGNAL INPUT
S/P/N	SECAM/PAL/NTSC	TU. VIDEO	TUNER VIDEO
SC IN	SERIAL CLOCK INPUT	TUN NOR IN	TUNER NORMAL INPUT
SC OUT	SERIAL CLOCK OUTPUT	TUN R	TUNER AUDIO (R)
SCK SELECT	SERIAL CLOCK SELECT	TUN. AUDIO IN	TUNER AUDIO INPUT
SEL OUT [L]	SELECT OUTPUT (L)	TUNER 12V	TUNER 12V
SEL OUT [R]	SELECT OUTPUT (R)	TUNER L	TUNER AUDIO (L)
SHUTTLE 1	SHUTTLE 1	TUNER V IN	TUNER VIDEO SIGNAL INPUT
SIF	SOUND INTERMEDIATE FREQUENCY	TUNER [L]	TUNER AUDIO (L)
SLMUT [H]	INPUT SELECT MUTE Ⓗ	TUNER [N]	TUNER AUDIO (NORMAL)
SLNID [+]	SOLENOID (+)	TUNER [R]	TUNER AUDIO (R)
SLNID [–]	SOLENOID (–)	TUNER. 12	TUNER 12V
SLW TR. MM	SLOW TRACKING MONO MULTI	TUOFF [H]	TUNER OFF Ⓗ
SLW TR. REF	SLOW TRACKING REFERENCE VOLTAGE	TV. AUDIO	TV AUDIO
		TV/VTR	TV/VTR
SNS. GND	SENSOR GND	TXTON [L]	TEXT ON Ⓛ
SOFT [H]	SOFT TAPE PLAY Ⓗ	U. REG45V	UNREGULATOR 45V
SOFT [H]/NORMAL	SOFT TAPE PLAY Ⓗ/NORMAL Ⓗ	UNREG	UNREGULATOR
SOLENOID ON [L]	SOLENOID ON Ⓛ	UNREG19V	UNREGULATOR 19V
SP [H]	SP Ⓗ	V. REF	REFERENCE VOLTAGE
SP/L/SLP	SP/LP	V. EE [H]	VIDEO EE Ⓗ
SSS [L]	SLOW/STILL/STOP	V. EE [L]	VIDEO EE Ⓛ
STEREO LED	STEREO LED	VCO REF	REFERENCE OSCILLATER
STEREO [H]	STEREO Ⓗ	VD. IN	VIDEO SIGNAL INPUT
STEREO [L]	STEREO Ⓛ	VD. OUT	VIDEO SIGNAL OUTPUT
STOP. PO	STOP POSITION	VIDEO EE [L]	VIDEO EE Ⓛ
STOP/5V	STOP POSITION/5V	VIDEO IN	VIDEO SIGNAL INPUT
STOP1/TAPE SEL	STOP1 POSITION/TAPE SELECT	VIDEO OUT	VIDEO SIGNAL OUTPUT
STOP1/PAL:ST	STOP1 POSITION/PAL	VM	MOTOR VOLTAGE
STOP2. PO	STOP 2 POSITION	VM DOWN [L]	MOTOR VOLTAGE DOWN Ⓛ
STOP2/S-TAB	STOP 2 POSITION/SAFETY TAB SW	VSS	VERTICAL SYNC SIGNAL
STREO [H]	STEREO Ⓗ	VTR [H]	VTR Ⓗ
SUB BIAS	SUB BIAS	VTR. 12V	VTR 12V
SUB. SW	SUB SW	X IN	OSCILLATOR INPUT
SVHS CAS [L]	S-VHS CASSETTE Ⓛ	X OUT	OSCILLATOR OUTPUT
SW. 5. DET	SW 5V DETECT		
SYNC [L]	SYNC Ⓛ		

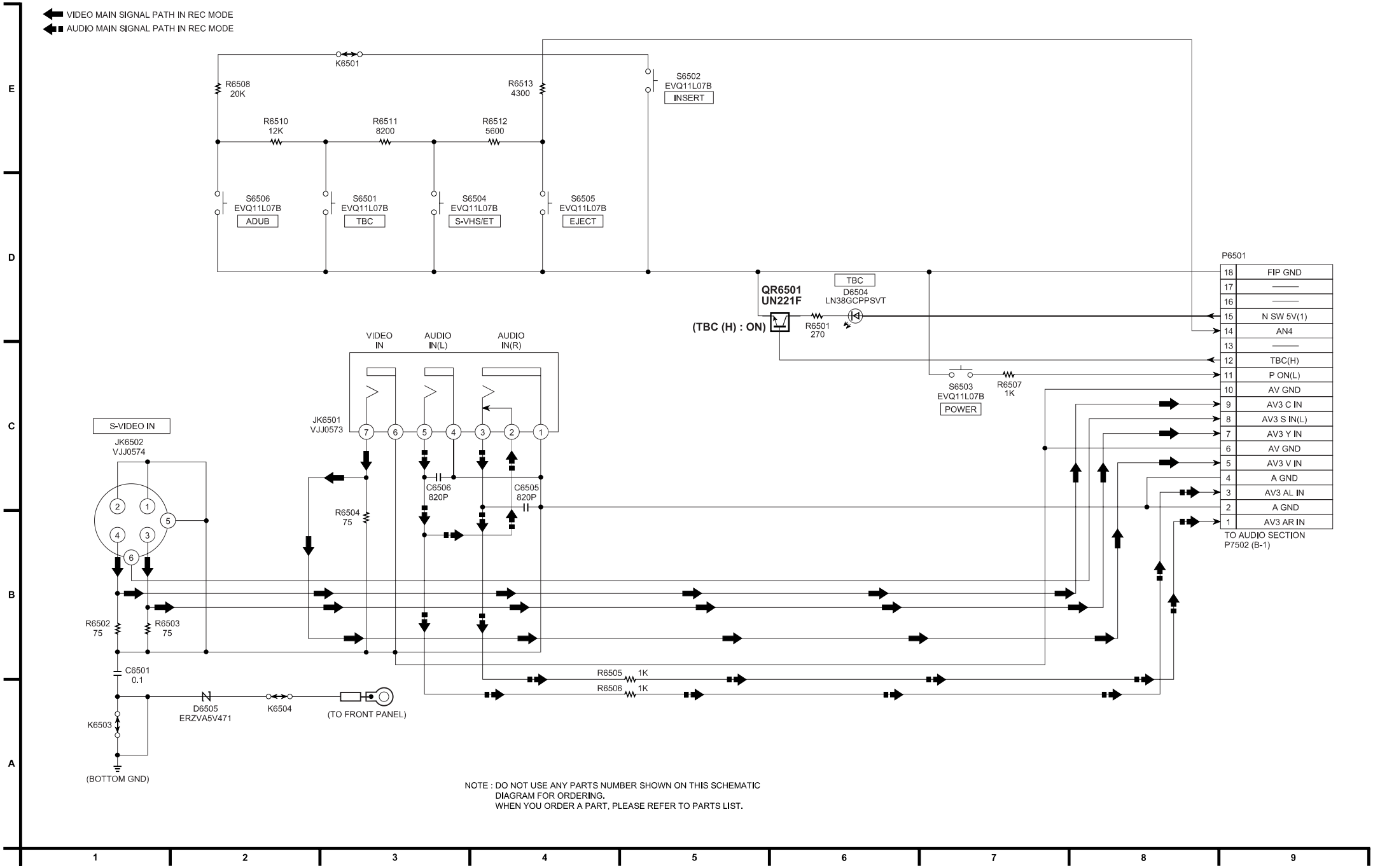

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
OSD PACK
IC4503 BA6138 (METER)
QR4501 UN2116 (BUFFER)
QR4502 UN2116 (BUFFER)
QR6701 UN2212 (INV)
QR6702 UN2211 (CAL Ⓗ:ON)
QR3201 XN4212
Q3201 2SB709A (AMP)
IC6701 M24C16
IC1051 UPC1093J
Q1051 2SD1996 (REG.)
Q1052 2SD1996 (REG.)
Q4101 2SD602A (OSC)
Q4102 2SB710A (F ERASE Ⓛ:ON)
QR4101 UN2212 (F ERASE Ⓗ:ON)
IC3201 NJM2533M
QR1051 UN2213 (SLEEP ON:Ⓛ)
Q1055 2SB710A (REG.) PS 36V
Q1057 2SD1996 (REG.) PS 12V
Q1056 2SD601A (V.CONT)
QR1052 UN2211 (P OFF:Ⓗ)
Q1058 2SC3940AOA (REG.) SW 12V
QR4503 UN2215 (A.MUTE)
QR4504 UN2215 (A.MUTE)
QR4505 UN2215 (A.MUTE)
QR4506 UN2113 (A.MUTE)
QR4507 UN2215 (A.MUTE)
IC4501 TDA9615H HIFI AUDIO
IC4502 NJM4558M
TL4509
TW4501
TW4502
TW4511
TH1051 VRT0162M220T
K4501
K4502
K4503
K4504
K6702
FM MIX OUT
PB FM ENVE
A H SW
AV3 C IN
AV3 Y IN
AV3 CPN (L)
FE OSC
<A-LINE>
<B-LINE>
<5V>
<6V>
<12V>
Ⓢ :TO SYSTEM CONTROL & SERVO SECTION
Ⓣ :TO TIMER SECTION
Ⓥ :TO VIDEO SECTION
NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.



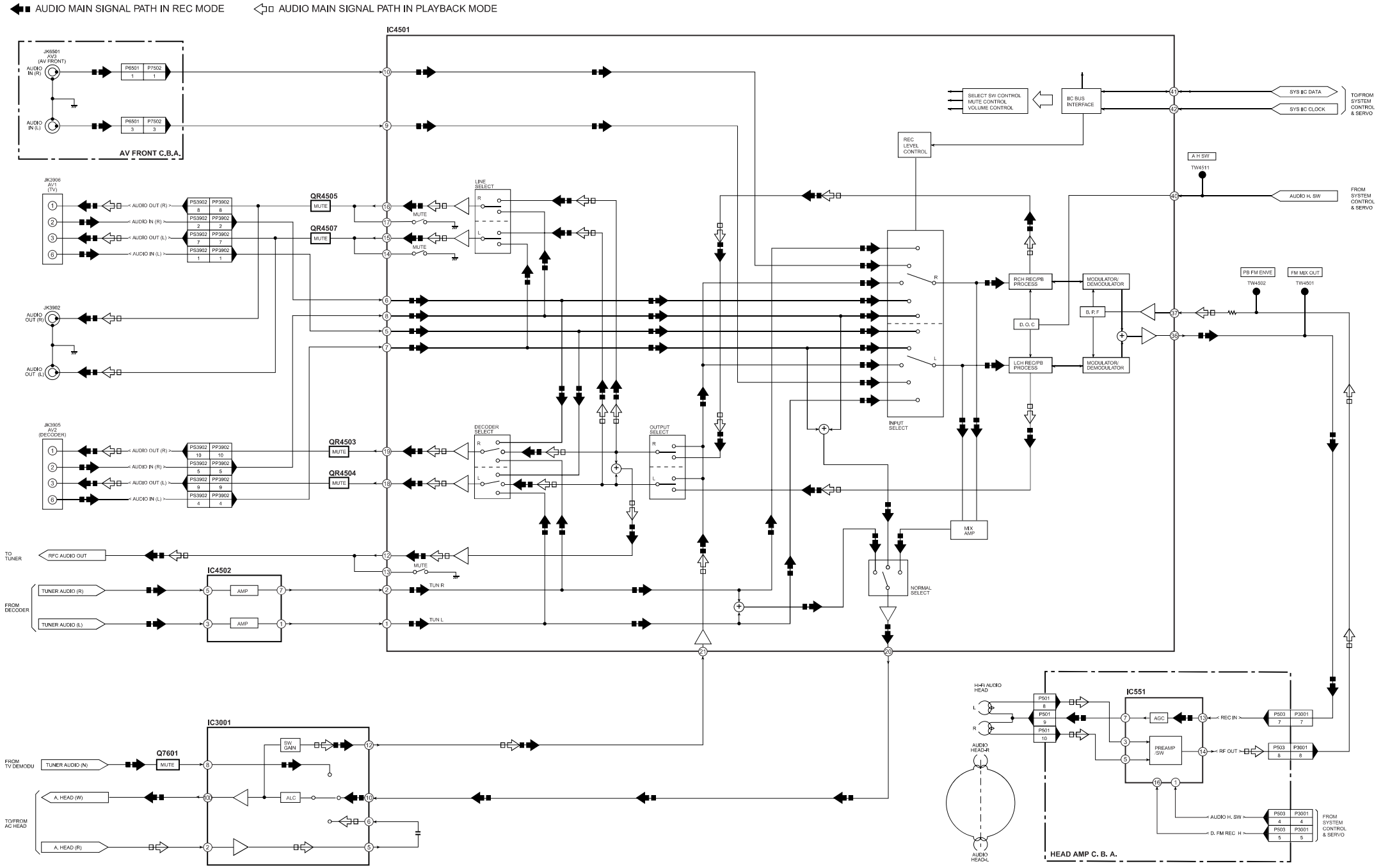
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE.

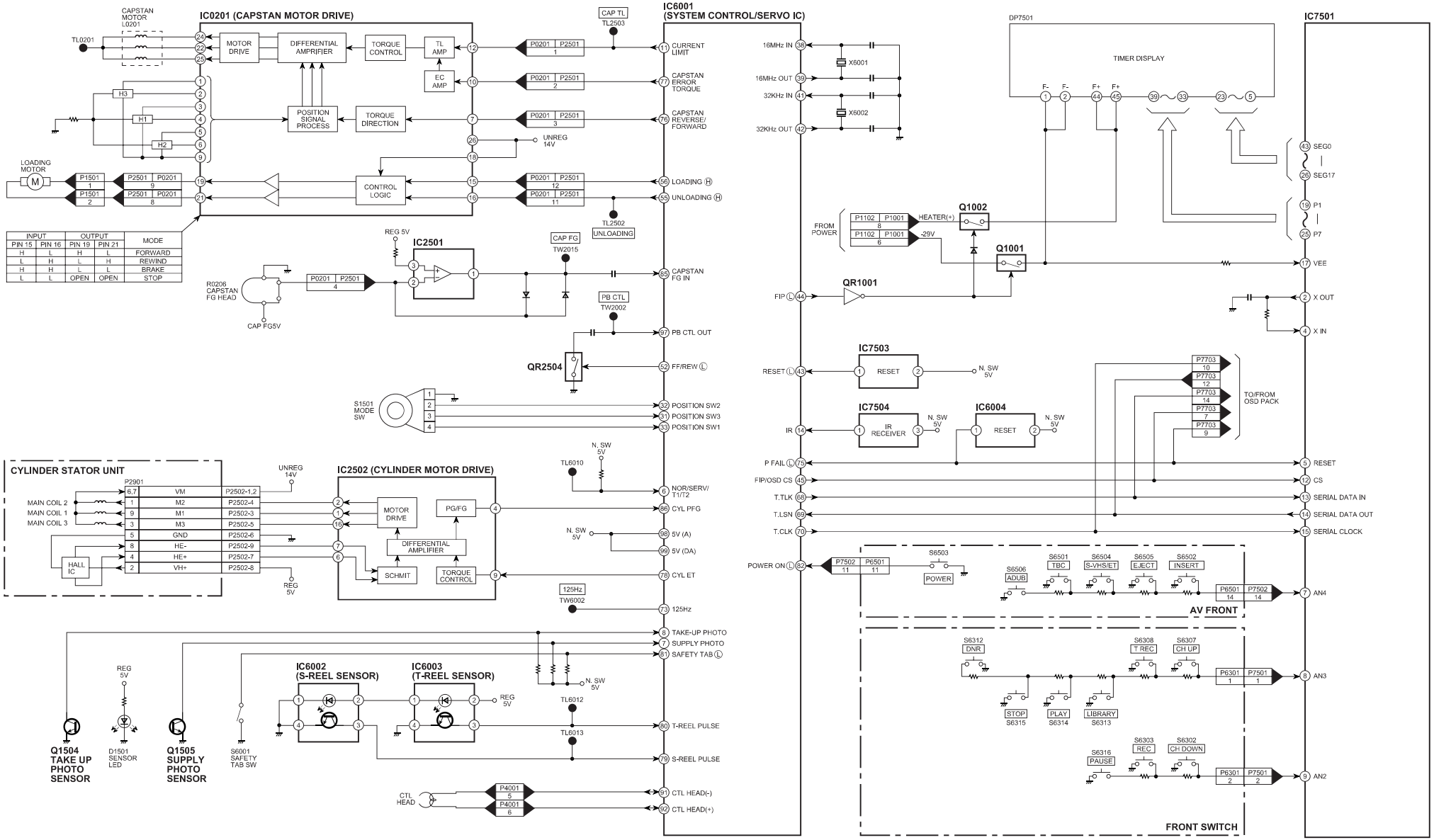
NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

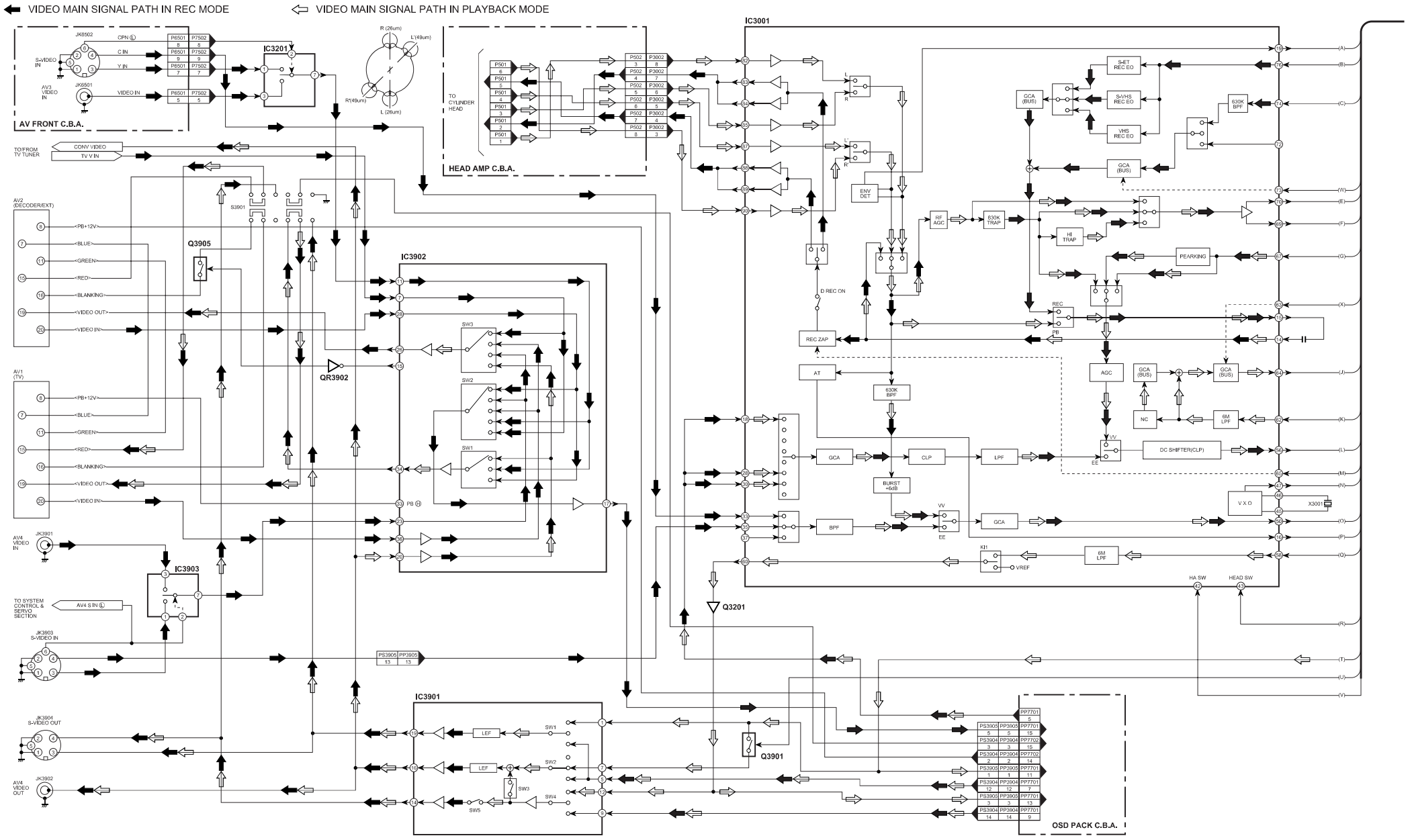
NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

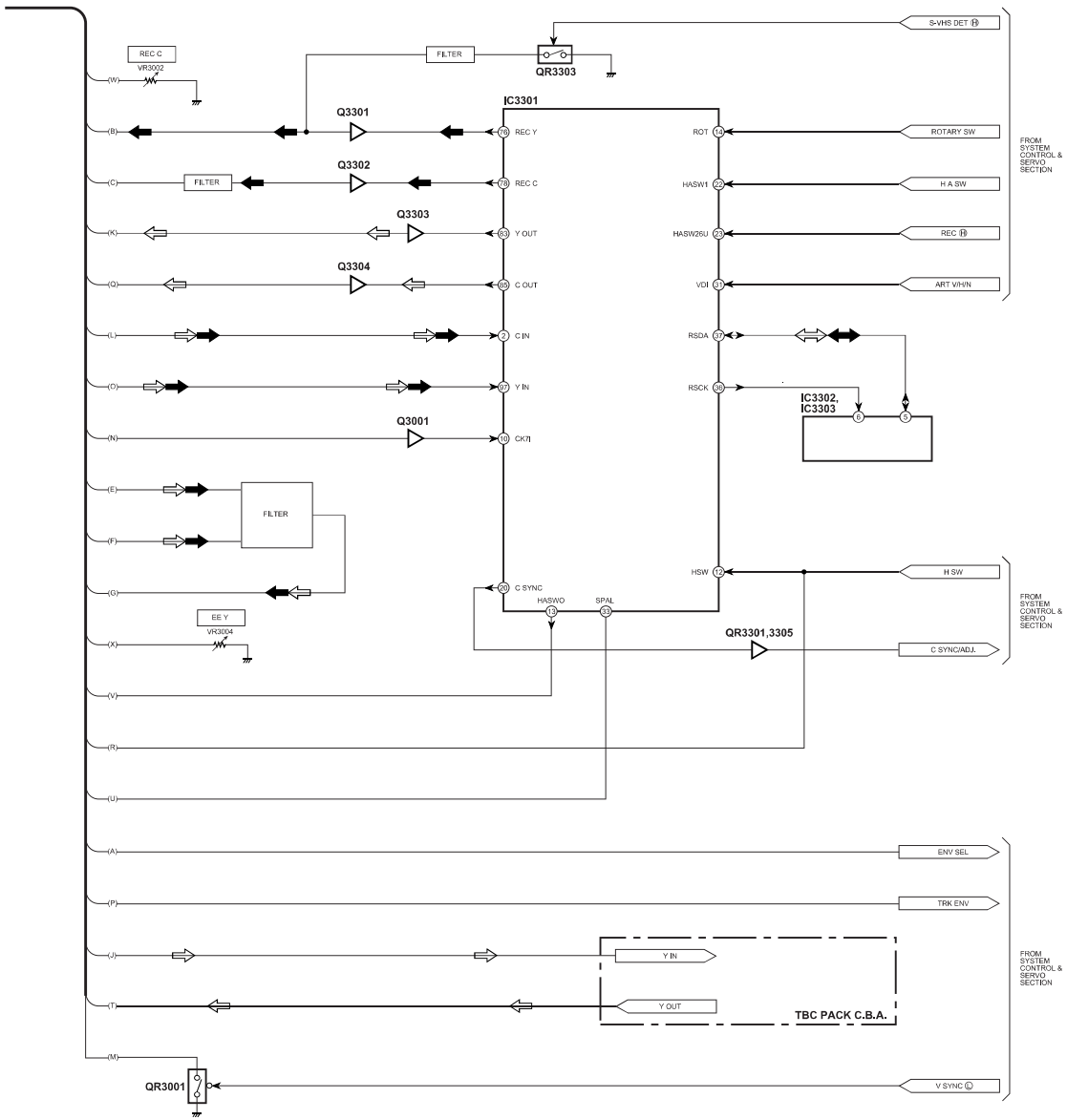


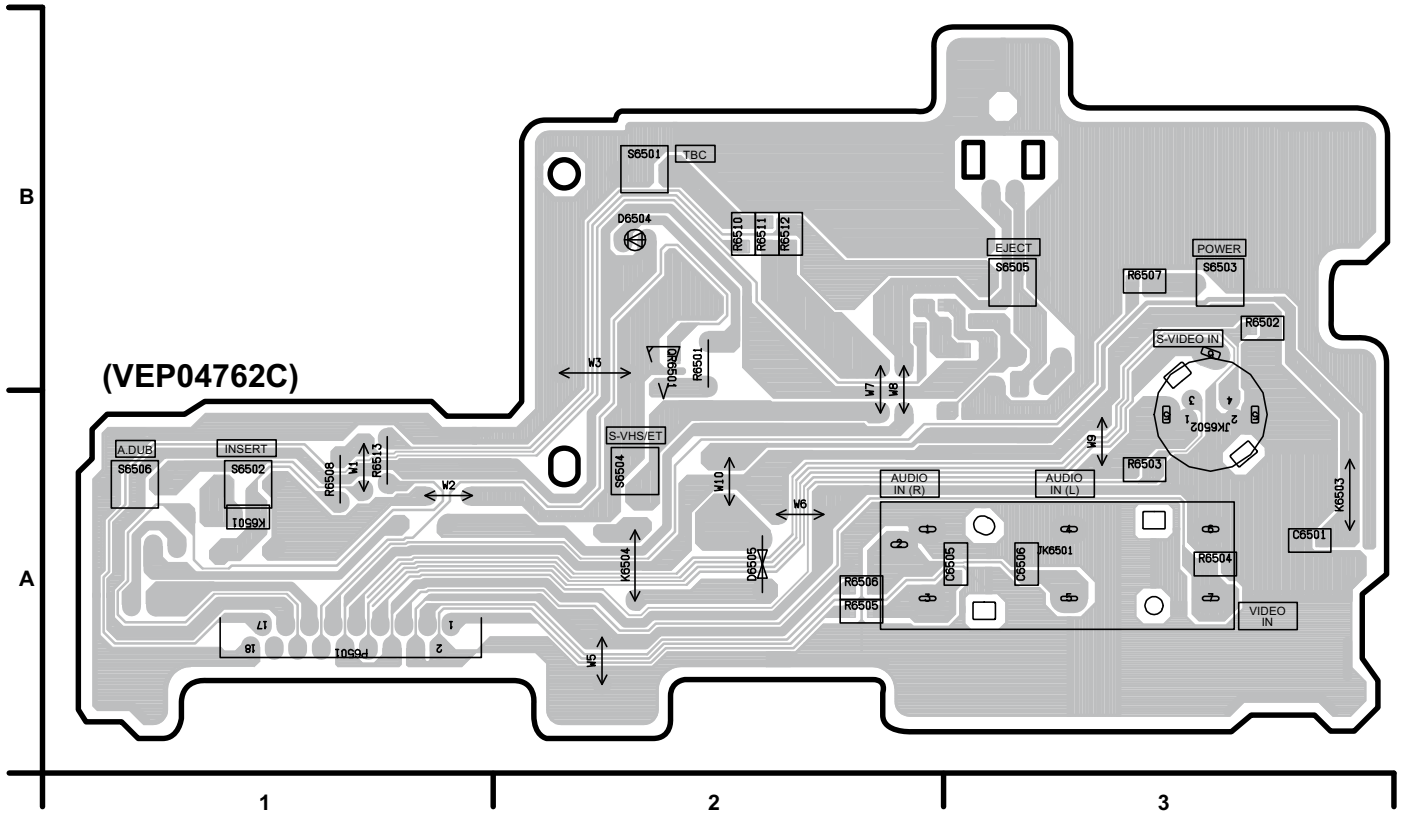
NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.


AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
IC4501
JK5501 AV3 (AV FRONT)
AUDIO IN (R)
AUDIO IN (L)
P6501
P7502
AV FRONT C.B.A.
JK3906 AV1 (TV)
AUDIO OUT (R)
AUDIO IN (R)
AUDIO OUT (L)
AUDIO IN (L)
PS3902
PP3902
QR4505
QR4507
MUTE
LINE SELECT
JK3902
JK3905 AV2 (DECODER)
QR4503
QR4504
DECODER SELECT
OUTPUT SELECT
INPUT SELECT
REC LEVEL CONTROL
SELECT SW CONTROL
MUTE CONTROL
VOLUME CONTROL
IIC BUS INTERFACE
SYS IIC DATA
SYS IIC CLOCK
TO/FROM SYSTEM CONTROL & SERVO
A H SW
TW4511
AUDIO H. SW
FROM SYSTEM CONTROL & SERVO
RCH REC/PB PROCESS
LCH REC/PB PROCESS
MODULATOR/ DEMODULATOR
B. P. F
D. O. C
PB FM ENVE
TW4502
FM MIX OUT
TW4501
MIX AMP
NORMAL SELECT
TO TUNER
RFC AUDIO OUT
IC4502
AMP
TUNER AUDIO (R)
TUNER AUDIO (L)
FROM DECODER
TUN R
TUN L
IC3001
Q7601
SW. GAIN
ALC
FROM TV DEMODU
TUNER AUDIO (N)
A. HEAD (W)
A. HEAD (R)
TO/FROM AC HEAD
HI-FI AUDIO HEAD
AUDIO HEAD-R
AUDIO HEAD-L
IC551
AGC
PREAMP SW
REC IN
RF OUT
AUDIO H. SW
D. FM REC H
HEAD AMP C. B. A.


IC0201 (CAPSTAN MOTOR DRIVE)
CAPSTAN MOTOR L0201
TL0201
MOTOR DRIVE
DIFFERENTIAL AMPRIFIER
TORQUE CONTROL
TL AMP
EC AMP
POSITION SIGNAL PROCESS
TORQUE DIRECTION
CONTROL LOGIC
H1
H2
H3
LOADING MOTOR
UNREG 14V
CAP TL
TL2503
IC6001 (SYSTEM CONTROL/SERVO IC)
CURRENT LIMIT
CAPSTAN ERROR TORQUE
CAPSTAN REVERSE/ FORWARD
LOADING Ⓗ
UNLOADING Ⓗ
TL2502 UNLOADING
INPUT
OUTPUT
MODE
FORWARD
REWIND
BRAKE
STOP
REG 5V
IC2501
CAP FG
TW2015
CAPSTAN FG IN
R0206 CAPSTAN FG HEAD
CAP FG5V
PB CTL
TW2002
PB CTL OUT
QR2504
FF/REW Ⓛ
S1501 MODE SW
POSITION SW2
POSITION SW3
POSITION SW1
CYLINDER STATOR UNIT
HALL IC
MAIN COIL 2
MAIN COIL 1
MAIN COIL 3
IC2502 (CYLINDER MOTOR DRIVE)
MOTOR DRIVE
PG/FG
DIFFERENTIAL AMPLIFIER
SCHMIT
TORQUE CONTROL
N. SW 5V
TL6010
NQR/SERV/ T1/T2
CYL PFG
5V (A)
5V (DA)
CYL ET
125Hz
TW6002
TAKE-UP PHOTO
SUPPLY PHOTO
SAFETY TAB Ⓛ
IC6002 (S-REEL SENSOR)
IC6003 (T-REEL SENSOR)
TL6012
TL6013
T-REEL PULSE
S-REEL PULSE
Q1504 TAKE UP PHOTO SENSOR
D1501 SENSOR LED
Q1505 SUPPLY PHOTO SENSOR
S6001 SAFETY TAB SW
CTL HEAD
CTL HEAD(-)
CTL HEAD(+)
16MHz IN
16MHz OUT
32KHz IN
32KHz OUT
X6001
X6002
FROM POWER
HEATER(+)
-29V
Q1002
Q1001
QR1001
FIP Ⓛ
IC7503
RESET
N. SW 5V
IC7504
IR RECEIVER
IC6004
IR
P FAIL Ⓛ
FIP/OSD CS
T.TLK
T.LSN
T.CLK
TO/FROM OSD PACK
POWER ON Ⓛ
S6503
POWER
S6506 ADUB
S6501 TBC
S6504 S-VHS/ET
S6505 EJECT
S6502 INSERT
AV FRONT
S6312 DNR
S6308 T REC
S6307 CH UP
S6315 STOP
S6314 PLAY
S6313 LIBRARY
S6316 PAUSE
S6303 REC
S6302 CH DOWN
FRONT SWITCH
DP7501
TIMER DISPLAY
IC7501
SEG0
SEG17
P1
P7
VEE
X OUT
X IN
RESET
CS
SERIAL DATA IN
SERIAL DATA OUT
SERIAL CLOCK
AN4
AN3
AN2


VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AV FRONT C.B.A.
HEAD AMP C.B.A.
IC3001
IC3201
IC3902
IC3903
IC3901
Q3905
QR3902
Q3201
Q3901
S3901
JK8502
JK6501
JK3901
JK3903
JK3904
JK3902
S-VIDEO IN
VIDEO IN
AV4 VIDEO IN
S-VIDEO OUT
AV4 VIDEO OUT
TO/FROM TV TUNER
CONV VIDEO
TV V IN
AV2 (DECODER/EXT)
AV1 (TV)
TO SYSTEM CONTROL & SERVO SECTION
AV4 S IN
TO CYLINDER HEAD
R (26um)
L'(49um)
R'(49um)
L (26um)
SW1
SW2
SW3
SW4
SW5
LEF
ENV DET
RF AGC
630K TRAP
HI TRAP
PEARKING
D REC ON
REC ZAP
AT
630K BPF
GCA
CLP
LPF
BURST +6dB
BPF
AGC
NC
6M LPF
DC SHIFTER(CLP)
V X O
X3001
KI1
VREF
HA SW
HEAD SW
S-ET REC EQ
S-VHS REC EQ
VHS REC EQ
GCA (BUS)
OSD PACK C.B.A.

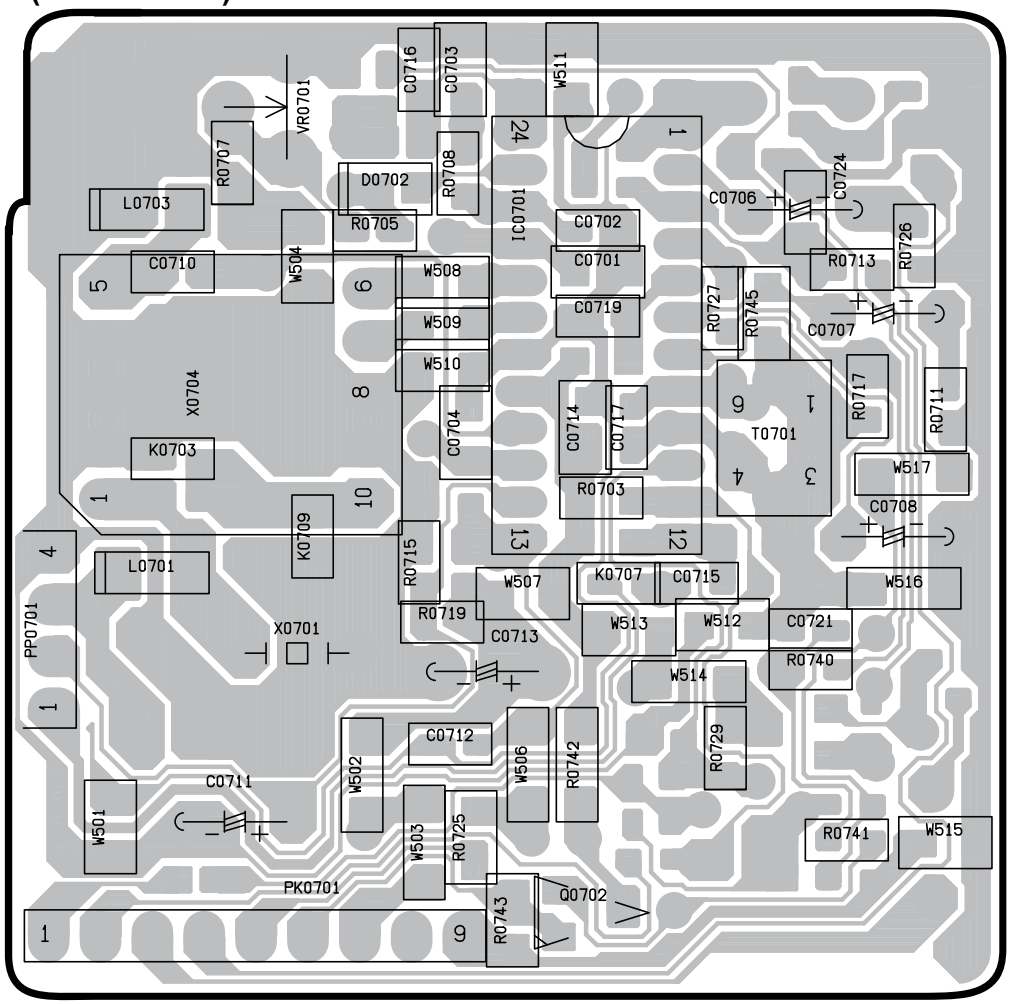

S-VHS DET
REC C
VR3002
FILTER
QR3303
IC3301
Q3301
REC Y
ROT
ROTARY SW
Q3302
FILTER
REC C
HASW1
H A SW
Q3303
Y OUT
HASW26U
REC
Q3304
C OUT
VDI
ART V/H/N
C IN
RSDA
Y IN
RSCK
IC3302,
IC3303
Q3001
CK7I
FILTER
HSW
H SW
C SYNC
HASWO
SPAL
EE Y
VR3004
QR3301,3305
C SYNC/ADJ.
FROM SYSTEM CONTROL & SERVO SECTION
ENV SEL
TRK ENV
Y IN
Y OUT
TBC PACK C.B.A.
QR3001
V SYNC



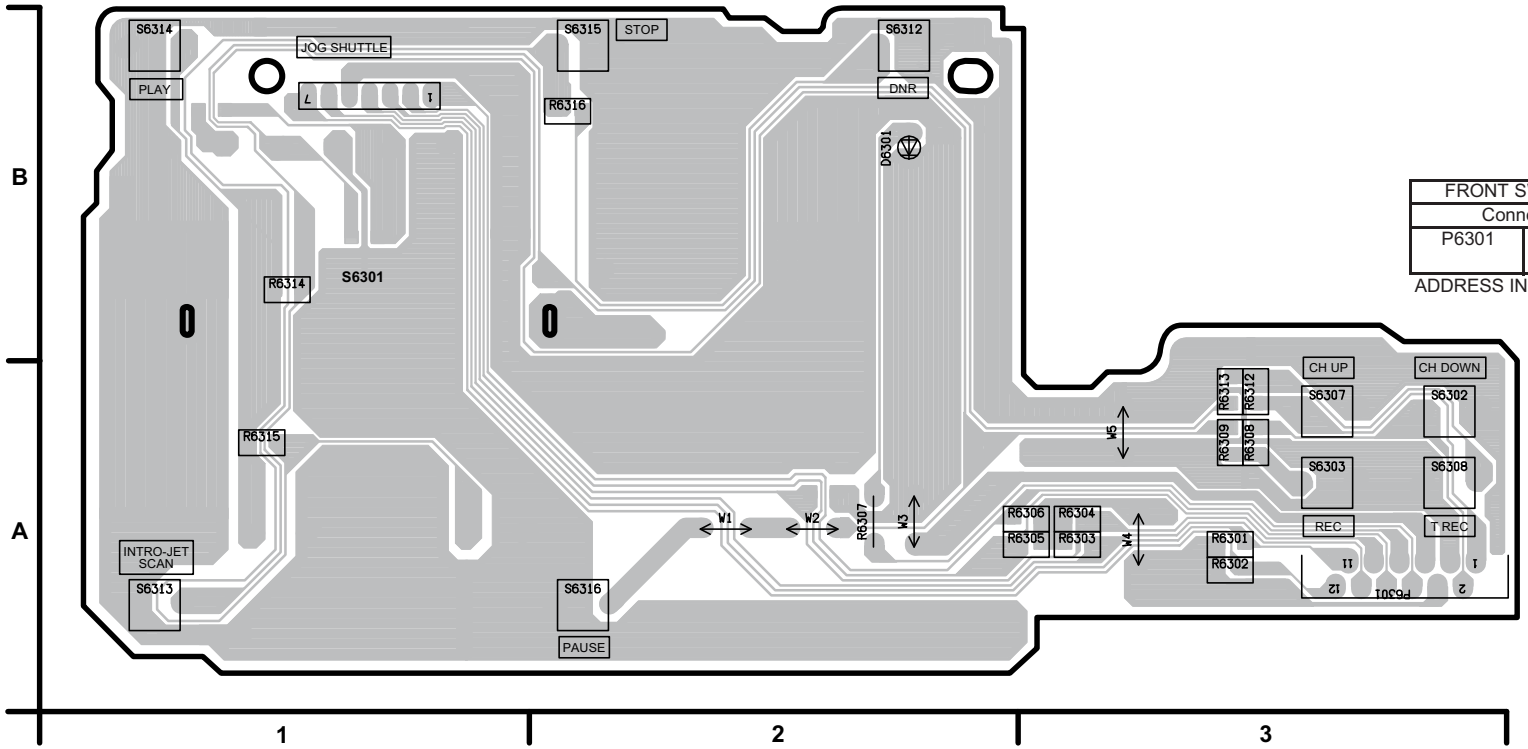
AV FRONT C.B.A.	
Transistor & Resistor	
QR6501	B-2
Connector	
P6501	A-1

ADDRESS INFORMATION

(VEP07A23A)


C0716
C0703
W511
VR0701
R0707
D0702
R0708
L0703
R0705
C0710
W504
W508
W509
W510
C0704
X0704
K0703
K0709
L0701
R0715
W507
R0719
C0713
X0701
PP0701
C0712
W502
W506
R0742
W503
R0725
W501
C0711
PK0701
R0743
Q0702
IC0701
C0702
C0701
C0719
C0714
C0717
R0703
K0707
C0715
W513
W512
W514
R0729
C0706
C0724
R0726
R0713
C0707
R0727
R0745
T0701
R0717
R0711
W517
C0708
W516
C0721
R0740
R0741
W515

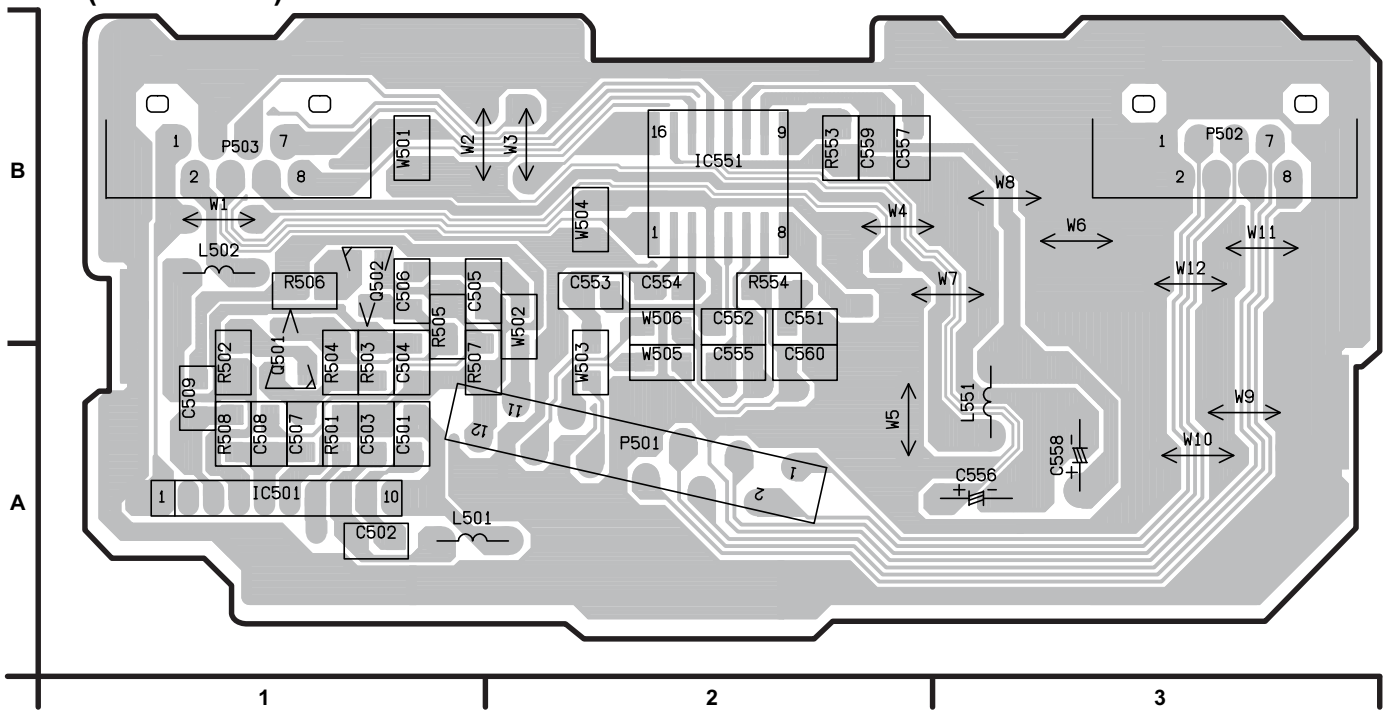
(VEP06D78A)



FRONT SW C.B.A.	
Connector	
P6301	A-3

ADDRESS INFORMATION

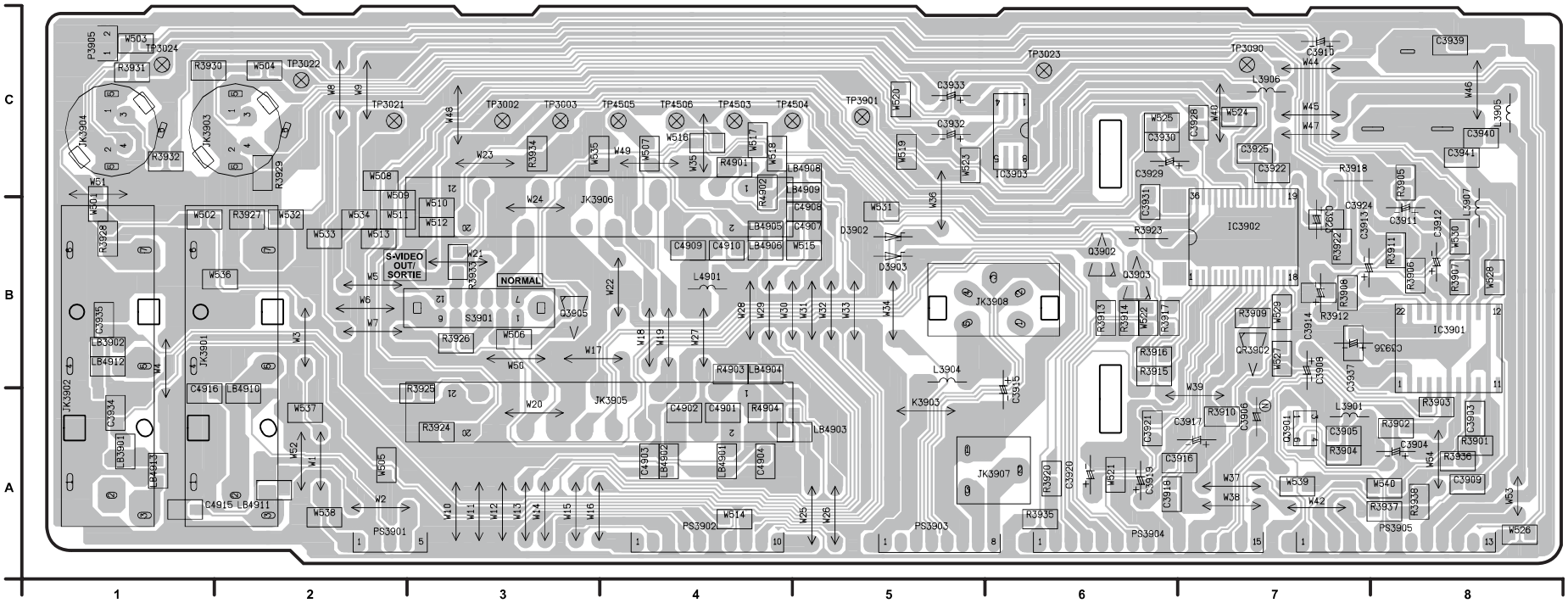
(VEP05392A)



HEAD AMP C.B.A.	
Transistor	
Q501	A-1
Q502	B-1
Integrated Circuit	
IC501	A-1
IC551	B-2
Connector	
P501	A-2
P502	B-3
P503	B-1

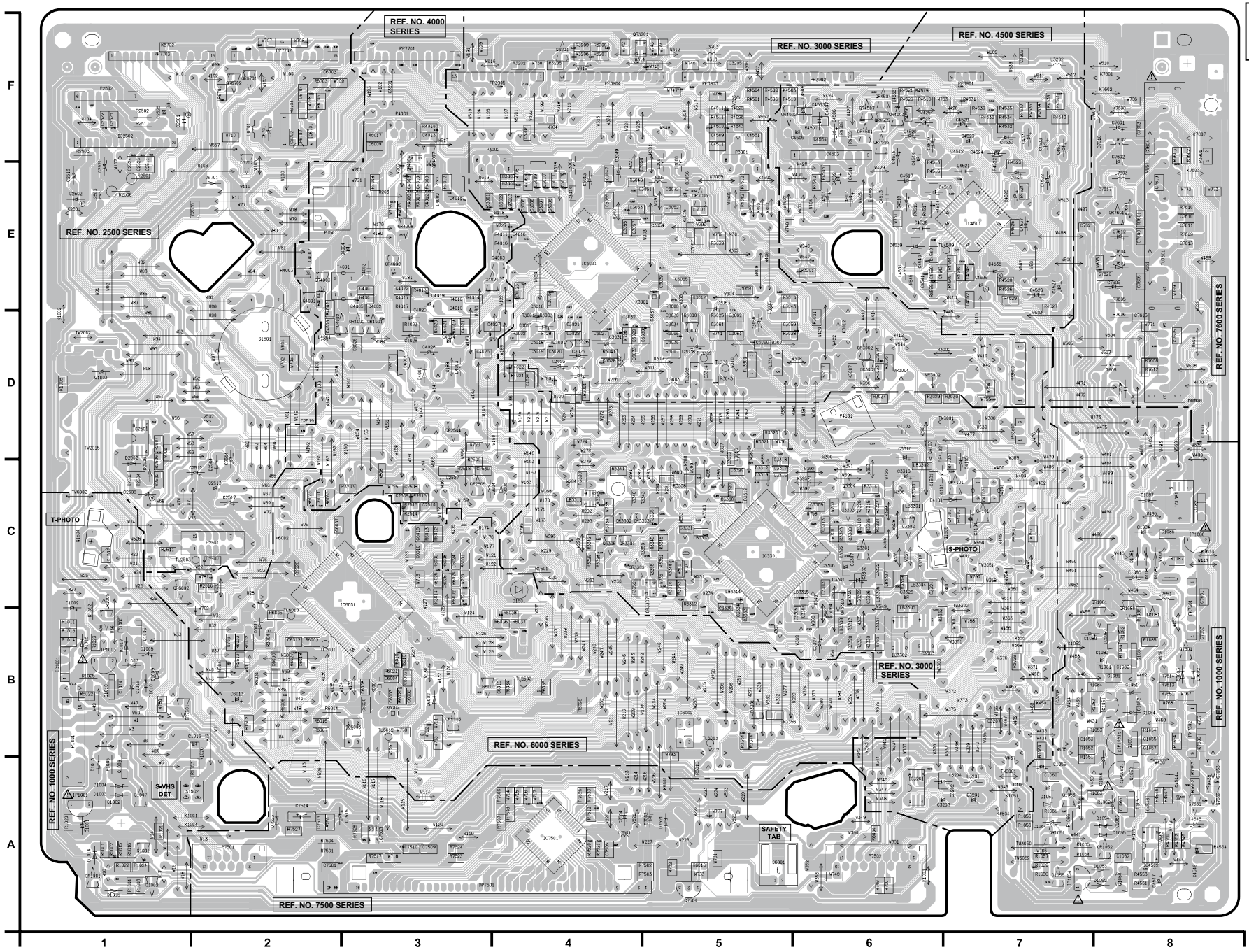
ADDRESS INFORMATION

(VEP03F50A)



INPUT/OUTPUT PACK C.B.A.	
Transistor	
Q3901	A-7
Q3902	B-6
Q3903	B-6
Q3905	B-3
Transistor & Resistor	
QR3902	B-7
Integrated Circuit	
IC3901	B-8
IC3902	B-7
IC3903	C-6
Test Point	
TP3002	C-3
TP3003	C-3
TP3021	C-2
TP3022	C-2
TP3023	C-6
TP3024	C-1
TP3090	C-7
TP3901	C-5
TP4503	C-4
TP4504	C-4
TP4505	C-4
TP4506	C-4
Connector	
P3905	C-1
PS3901	A-2
PS3902	A-4
PS3903	A-5
PS3904	A-6
PS3905	A-8

ADDRESS INFORMATION



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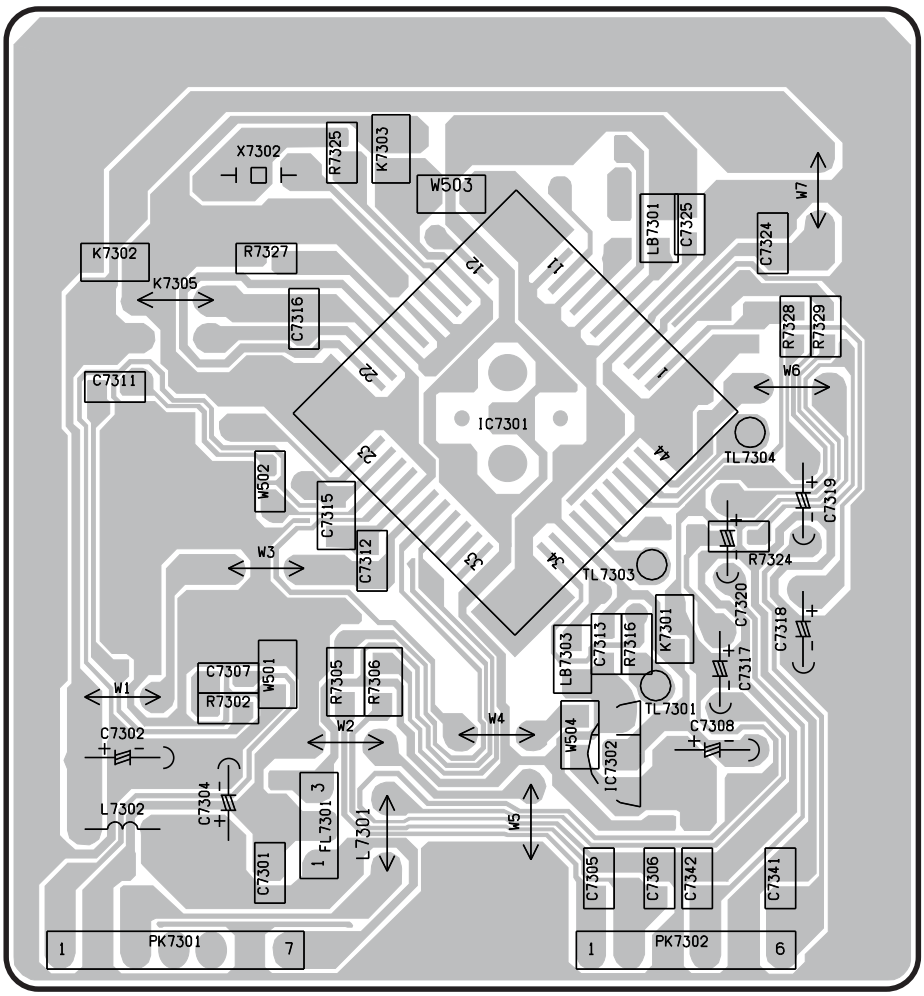
(VEP06D77C)

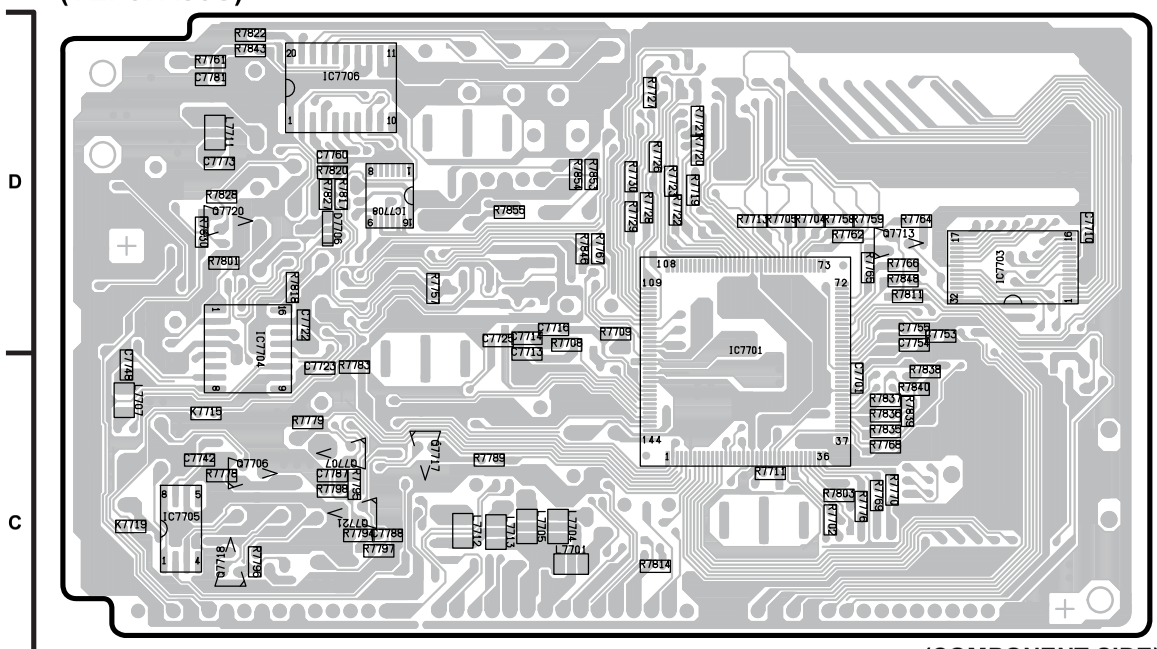
MAIN C.B.A.			
Transistor		QR7501	B-1
Q1001	A-1	QR7601	E-8
Q1002	A-1	Integrated Circuit	
Q1003	A-1	IC1001	B-1
Q1006	B-1	IC1051	B-8
Q1007	A-1	IC1080	B-8
Q1010	B-1	IC1081	C-8
Q1051	B-8	IC2501	D-1
Q1052	A-8	IC2502	F-1
Q1055	A-7	IC3001	E-4
Q1056	A-7	IC3201	A-6
Q1057	A-8	IC3301	C-5
Q1058	A-8	IC3302	B-6
Q1080	B-8	IC3303	B-6
Q1081	B-8	IC4501	E-7
Q1082	C-8	IC4502	A-8
Q1504	C-1	IC4503	F-6
Q1505	C-6	IC6001	C-3
Q3001	D-5	IC6002	B-5
Q3201	F-4	IC6003	B-3
Q3301	C-6	IC6004	D-3
Q3302	C-6	IC6701	F-2
Q3303	C-6	IC7501	A-4
Q3304	C-6	IC7503	A-3
Q3305	C-4	IC7504	A-5
Q4001	E-2	Test Point	
Q4002	D-3	TL2001	B-2
Q4003	E-4	TL2502	B-4
Q4004	E-4	TL2503	C-2
Q4101	C-7	TL3001	D-4
Q4102	D-6	TL3301	D-5
Q7601	B-8	TL3302	D-5
Q7651	A-8	TL4509	E-7
Q7652	A-8	TL6010	B-2
Q7653	A-8	TL6012	B-3
Transistor & Resistor		TL6013	B-5
QR1001	A-1	TW2002	D-1
QR1005	B-1	TW2015	D-1
QR1051	A-7	TW3001	D-7
QR1052	A-8	TW3002	D-6
QR1080	B-8	TW3301	B-7
QR1081	B-8	TW3302	B-7
QR2504	D-3	TW3051	C-7
QR2505	C-3	TW4511	D-7
QR3001	D-6	TW6002	C-1
QR3002	D-6	Adjustment	
QR3003	E-5	VR3002	D-6
QR3201	F-4	VR3004	D-6
QR3301	C-4	Connector	
QR3302	C-4	P1001	B-1
QR3303	C-4	P1501	E-2
QR3305	C-4	P2501	C-2
QR3307	C-5	P2502	F-1
QR3309	C-4	P3001	F-5
QR3310	C-6	P3002	F-4
QR4001	D-3	P4001	F-3
QR4002	D-3	P4101	D-6
QR4003	E-2	P7501	A-2
QR4007	F-3	P7502	A-6
QR4008	E-3	PK7301	B-8
QR4009	E-3	PK7302	B-8
QR4101	C-7	PP3501	C-7
QR4501	F-6	PP3502	D-7
QR4502	F-5	PP3503	D-7
QR4503	F-6	PP3901	F-7
QR4504	F-6	PP3902	F-6
QR4505	F-6	PP3903	F-5
QR4506	F-6	PP3904	F-4
QR4507	F-6	PP3905	F-4
QR6001	B-3	PP7701	F-3
QR6002	C-1	PP7702	F-2
QR6003	B-3	PP7703	F-1
QR6701	F-2		
QR6702	F-2		

ADDRESS INFORMATION

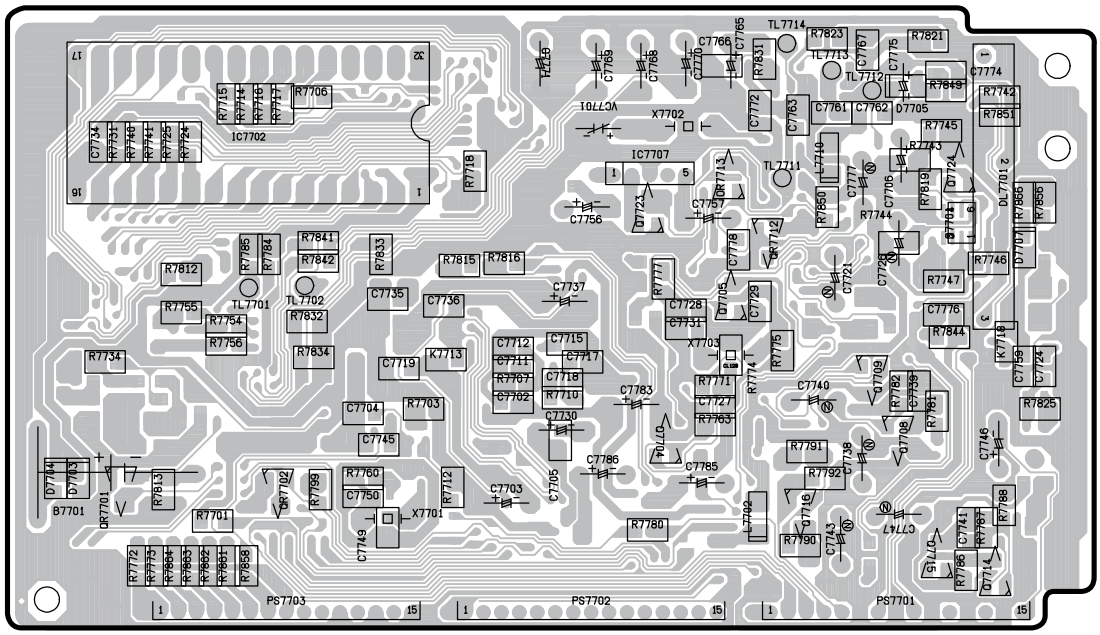
(VEP07A18J)


X7302
R7325
K7303
W503
K7302
R7327
K7305
C7316
C7311
W502
C7315
C7312
W3
W1
C7307
R7302
W501
R7305
R7306
W2
C7302
L7302
C7304
C7301
FL7301
L7301
W4
W5
IC7301
LB7301
C7325
C7324
W7
R7328
R7329
W6
TL7304
C7319
R7324
TL7303
C7320
C7318
C7317
LB7303
C7313
R7316
K7301
TL7301
C7308
W504
IC7302
C7305
C7306
C7342
C7341
PK7301
PK7302

(VEP07A30C)



(COMPONENT SIDE)



(FOIL SIDE)

OSD PACK C.B.A.	
Transistor	
Q7701	B-3
Q7704	A-2
Q7705	B-2
Q7706	C-1
Q7707	C-1
Q7708	A-3
Q7709	A-3
Q7713	D-3
Q7714	A-3
Q7715	A-3
Q7716	A-3
Q7717	C-2
Q7718	C-1
Q7720	D-1
Q7721	C-1
Q7723	B-2
Q7724	B-3
Transistor & Resistor	
QR7701	A-1
QR7702	A-1
QR7712	B-3
QR7713	B-2
Integrated Circuit	
IC7701	D-2
IC7702	B-1
IC7703	D-3
IC7704	C-1
IC7705	C-1
IC7706	D-1
IC7707	B-2
IC7708	D-1
Test Land	
TL7701	B-1
TL7702	B-1
TL7711	B-3
TL7712	B-3
TL7713	B-3
TL7714	B-3
Adjustment	
VC7701	B-2
Connector	
PS7701	A-3
PS7702	A-2
PS7703	A-1

ADDRESS INFORMATION

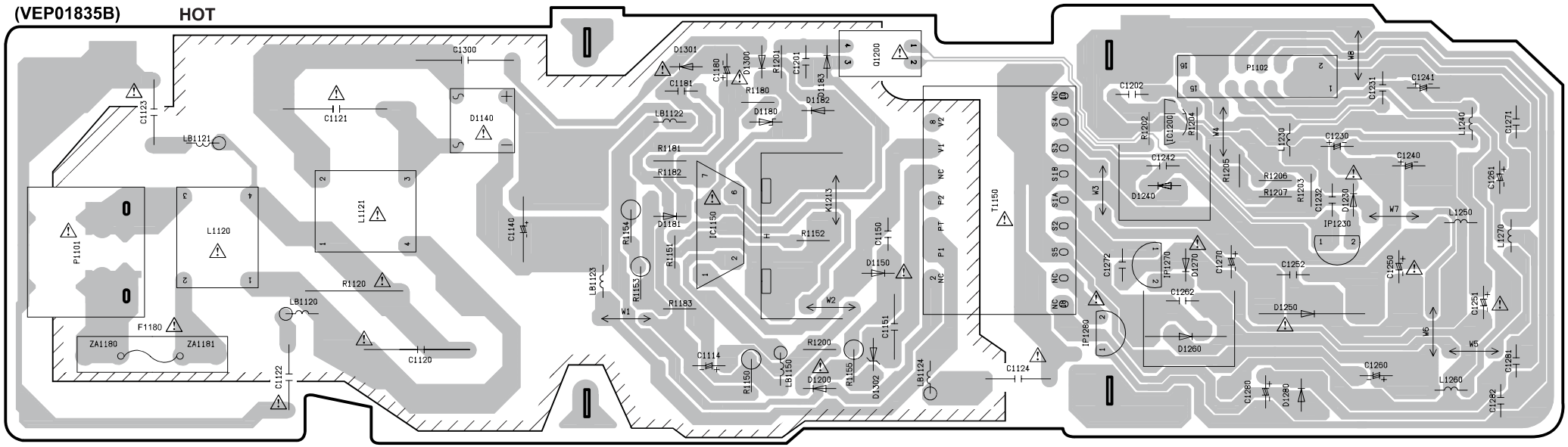
POWER C.B.A.	
Transistor	
Q1200	B-4
Integrated Circuit	
IC1150	B-3
IC1200	B-5
Connector	
P1101	A-1
P1103	A-1

ADDRESS INFORMATION

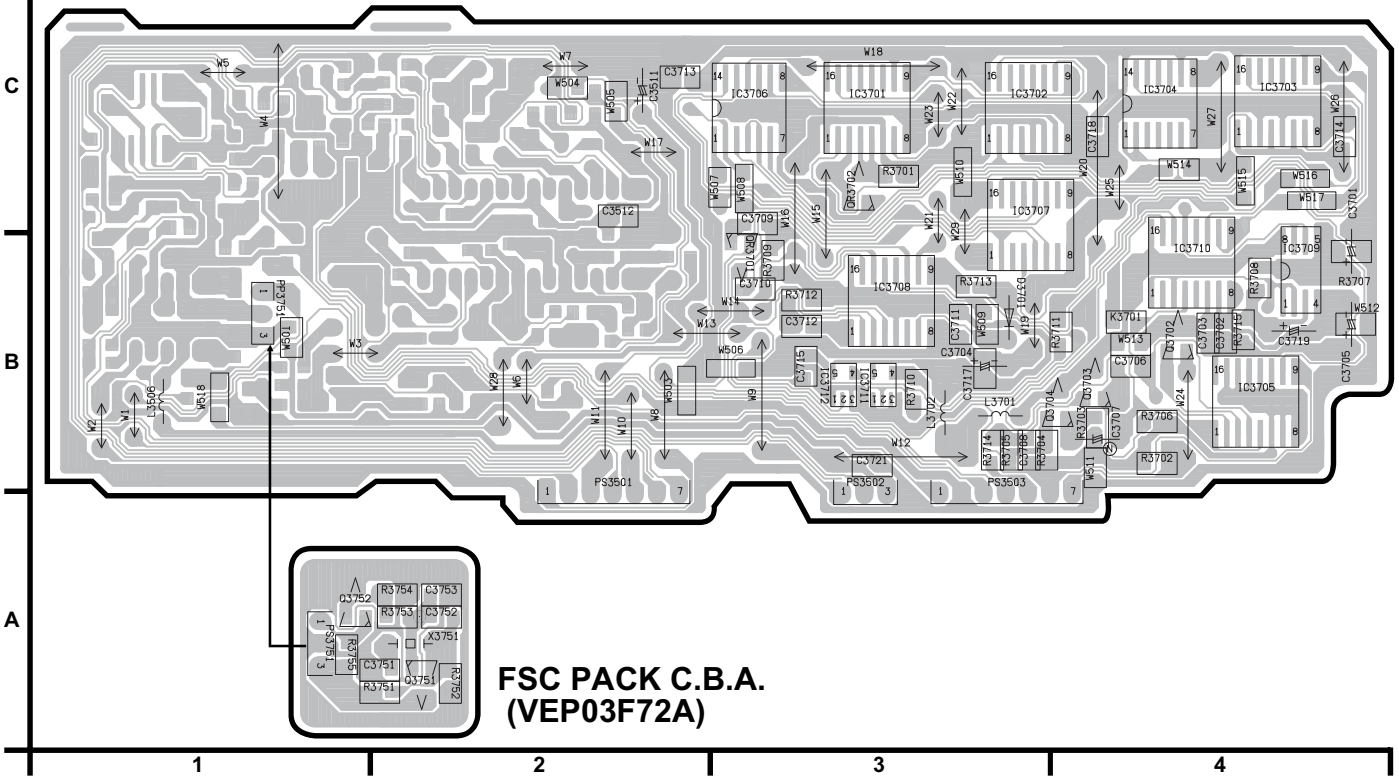
CAUTION THE STRIPED FRAME INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE.

(VEP01835B) **HOT**



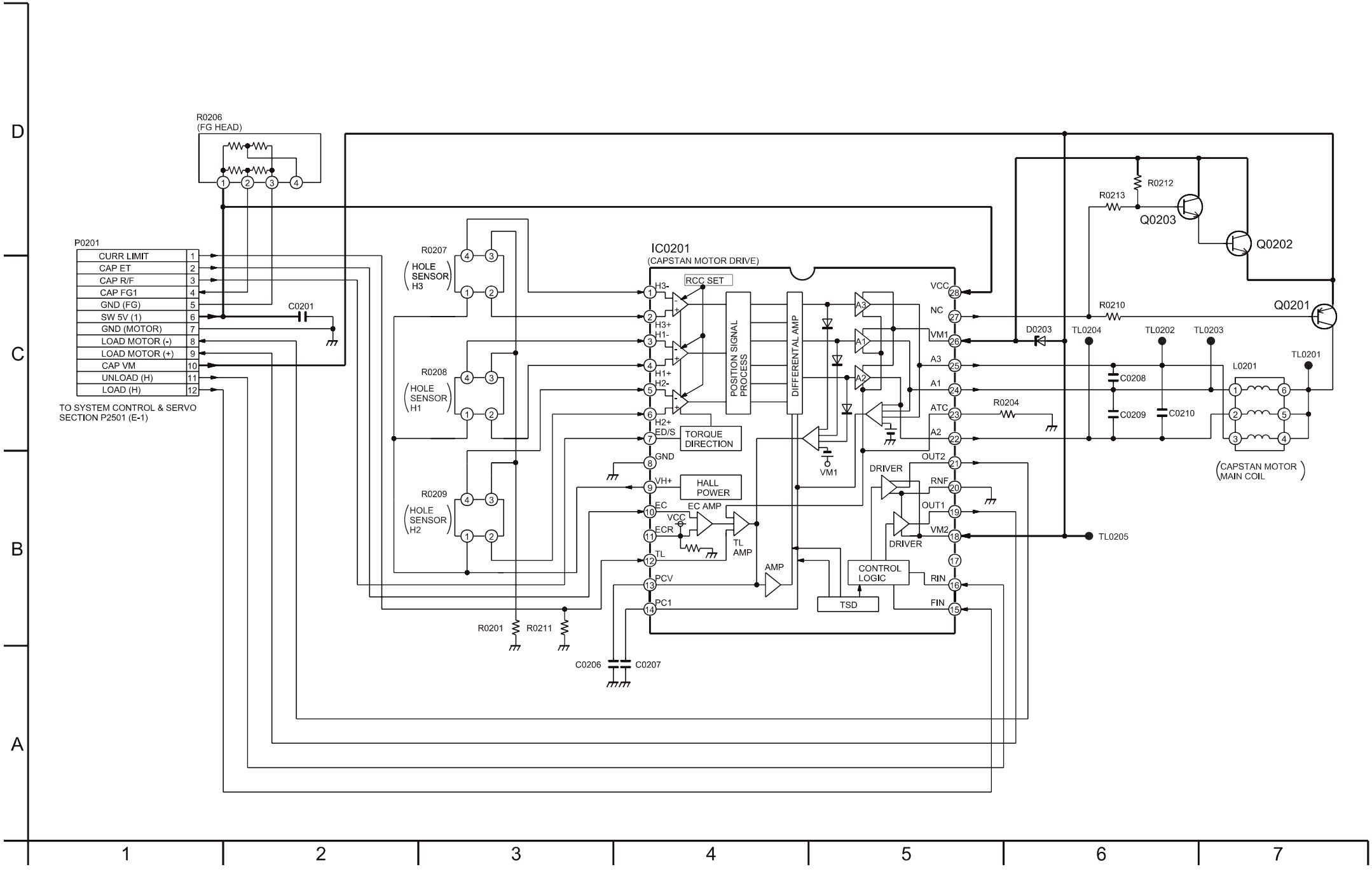
TBC PACK C.B.A. (VEP03F51B)

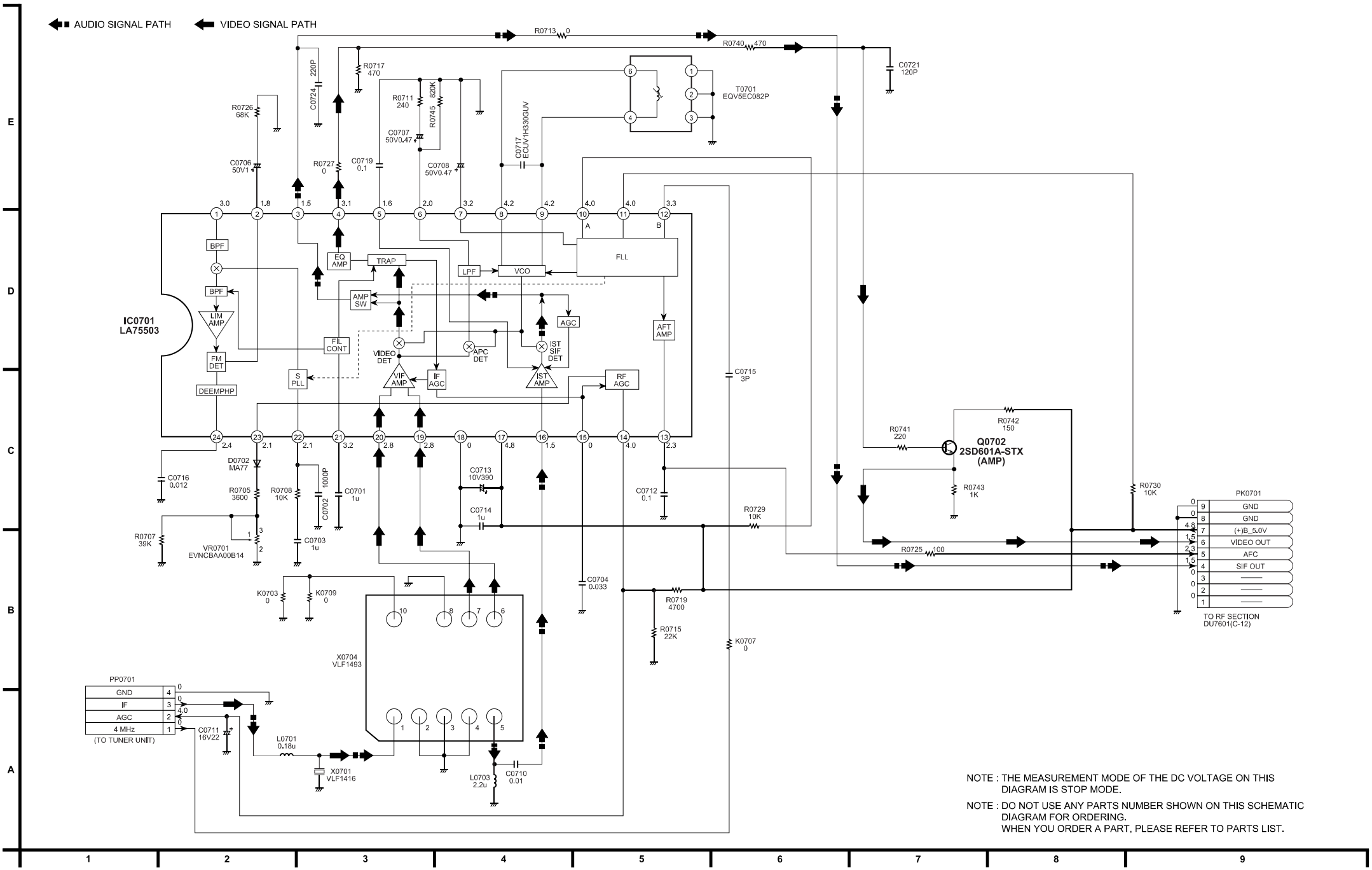


FSC PACK C.B.A. (VEP03F72A)

TBC PACK C.B.A.	
Transistor	
Q3702	B-4
Q3703	B-4
Q3704	B-4
Q3751	A-2
Q3752	A-1
Transistor & Resistor	
QR3701	B-3
QR3702	C-3
Integrated Circuit	
IC3701	C-3
IC3702	C-3
IC3703	C-4
IC3704	C-4
IC3705	B-4
IC3706	C-3
IC3707	C-3
IC3708	B-3
IC3709	B-4
IC3710	B-4
IC3711	B-3
IC3712	B-3
Connector	
PP3751	B-1
PS3501	B-2
PS3502	B-3
PS3503	B-3
PS3751	A-1

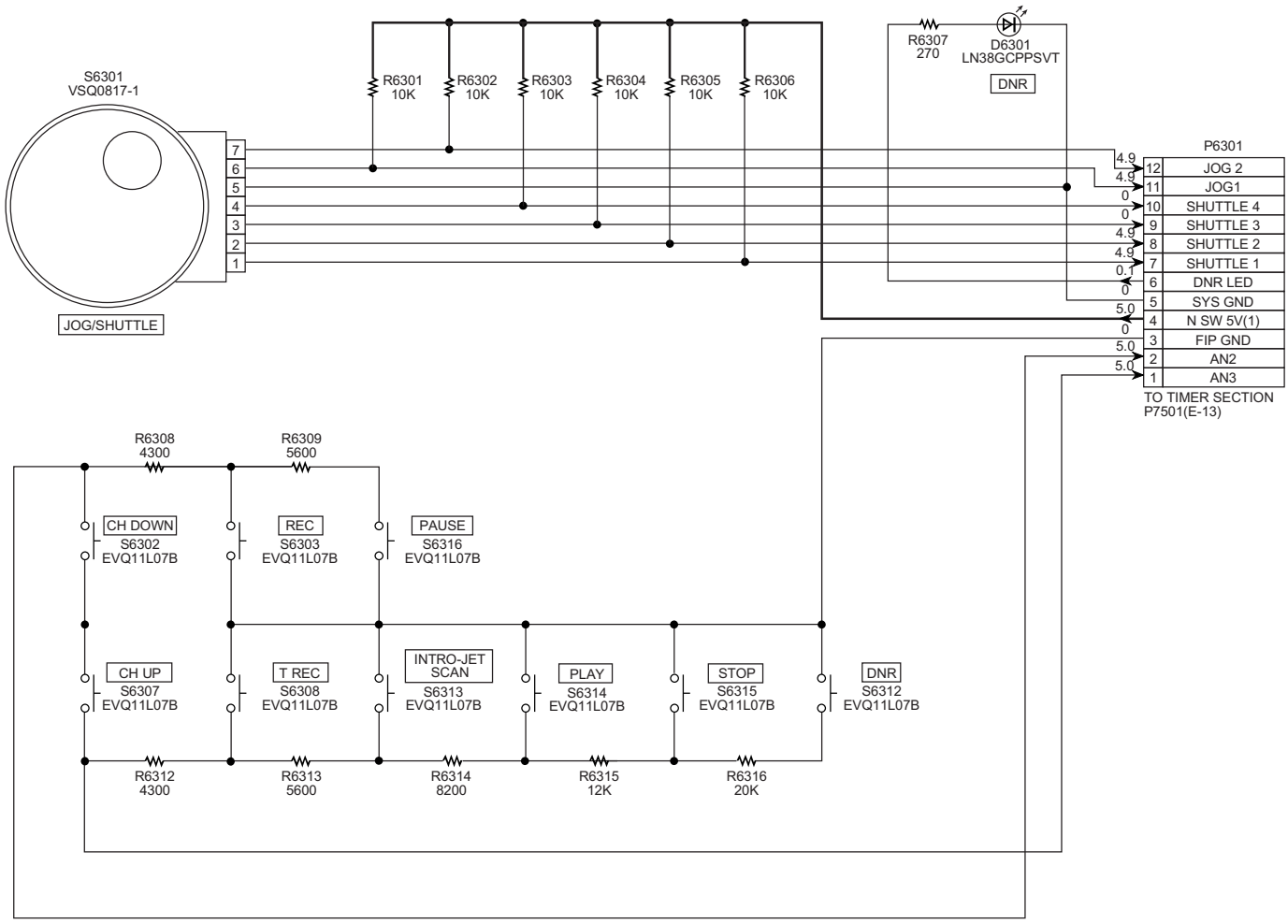
ADDRESS INFORMATION


R0206
(FG HEAD)
P0201
CURR LIMIT 1
CAP ET 2
CAP R/F 3
CAP FG1 4
GND (FG) 5
SW 5V (1) 6
GND (MOTOR) 7
LOAD MOTOR (-) 8
LOAD MOTOR (+) 9
CAP VM 10
UNLOAD (H) 11
LOAD (H) 12
TO SYSTEM CONTROL & SERVO SECTION P2501 (E-1)
C0201
R0207
HOLE SENSOR H3
R0208
HOLE SENSOR H1
R0209
HOLE SENSOR H2
IC0201
(CAPSTAN MOTOR DRIVE)
RCC SET
H3-
H3+
H1-
H1+
H2-
H2+
ED/S
TORQUE DIRECTION
GND
VH+
HALL POWER
EC
EC AMP
VCC
ECR
TL
TL AMP
PCV
AMP
PC1
POSITION SIGNAL PROCESS
DIFFERENTAL AMP
A3
A1
A2
VM1
VCC 28
NC 27
VM1 26
A3 25
A1 24
ATC 23
A2 22
OUT2 21
DRIVER
RNF 20
OUT1 19
VM2 18
DRIVER
17
CONTROL LOGIC
RIN 16
TSD
FIN 15
R0201
R0211
C0206
C0207
R0212
R0213
Q0203
Q0202
Q0201
R0210
D0203
TL0204
TL0202
TL0203
TL0201
L0201
C0208
C0209
C0210
R0204
(CAPSTAN MOTOR MAIN COIL)
TL0205
D
C
B
A
1
2
3
4
5
6
7



NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

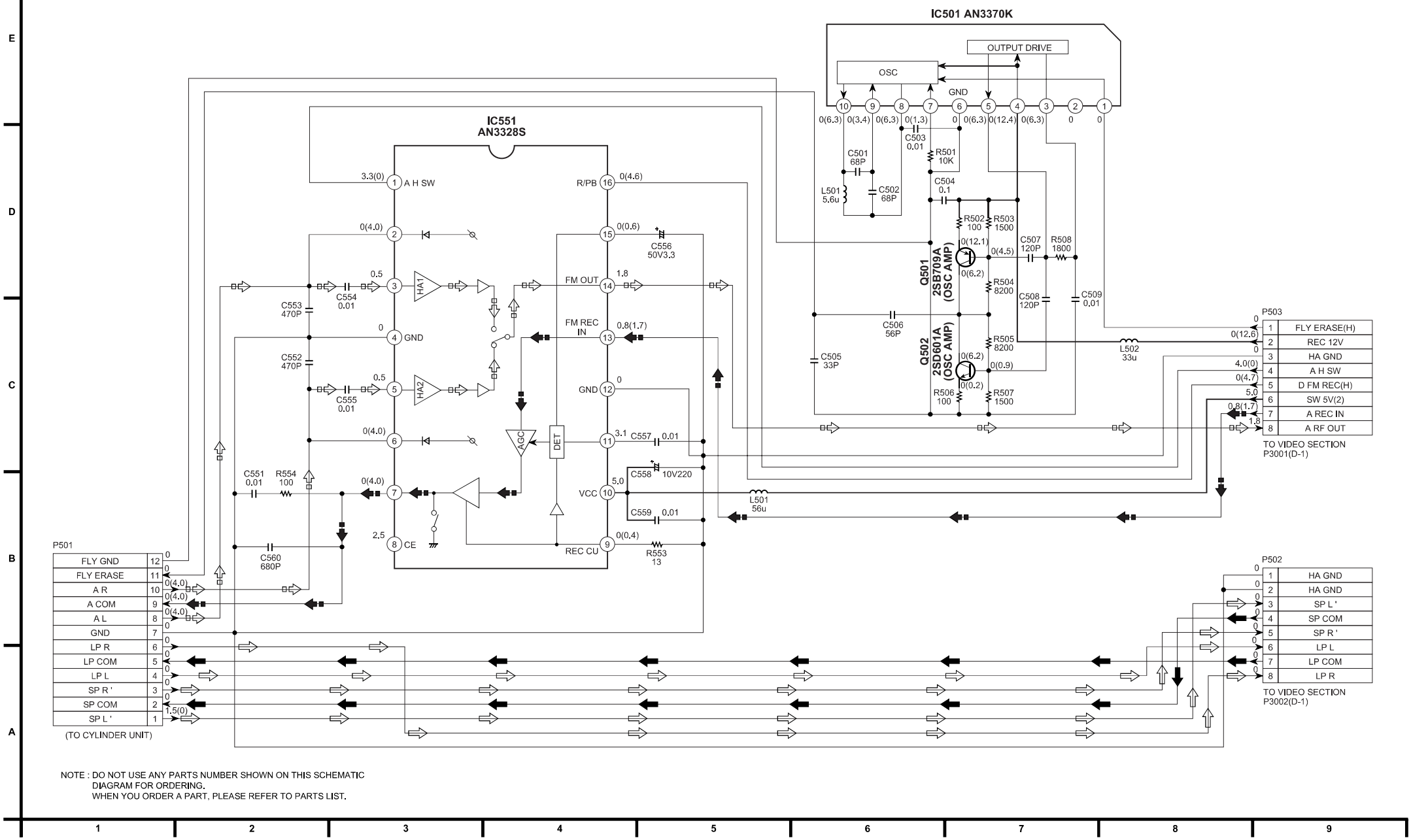
NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.



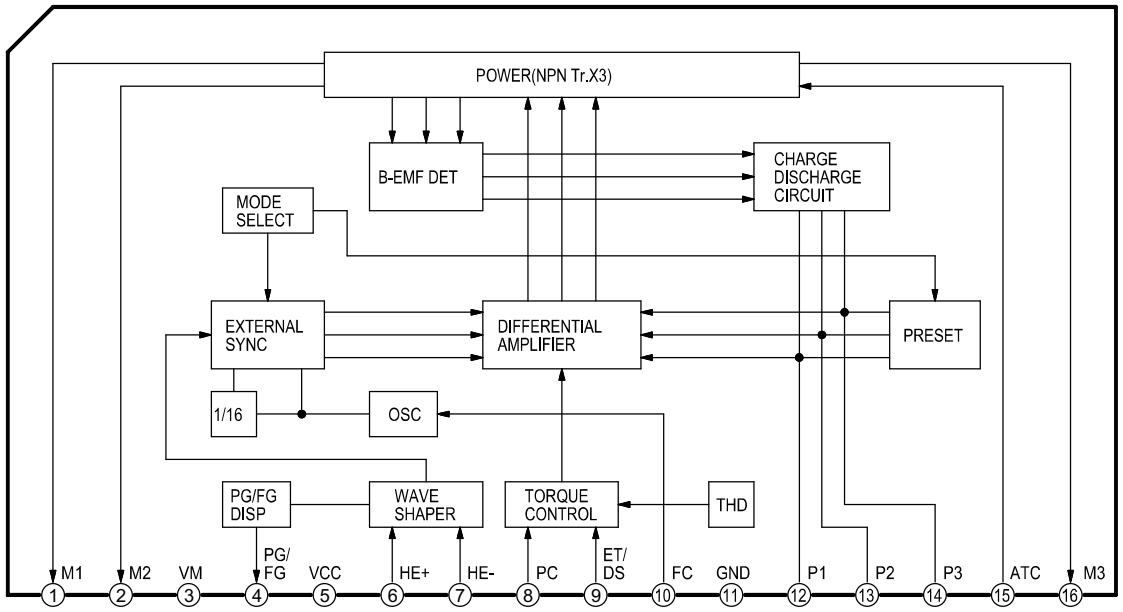
NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

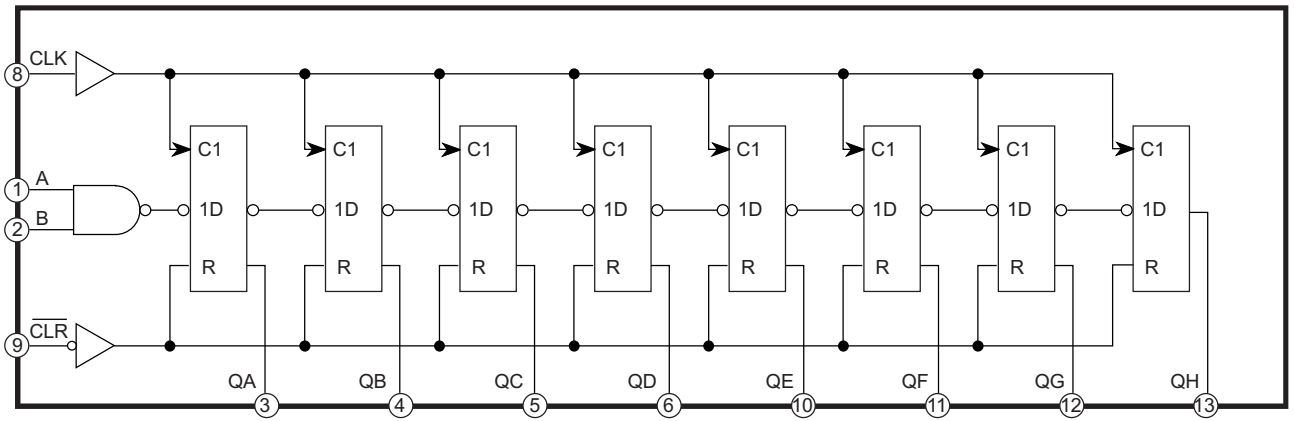
NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

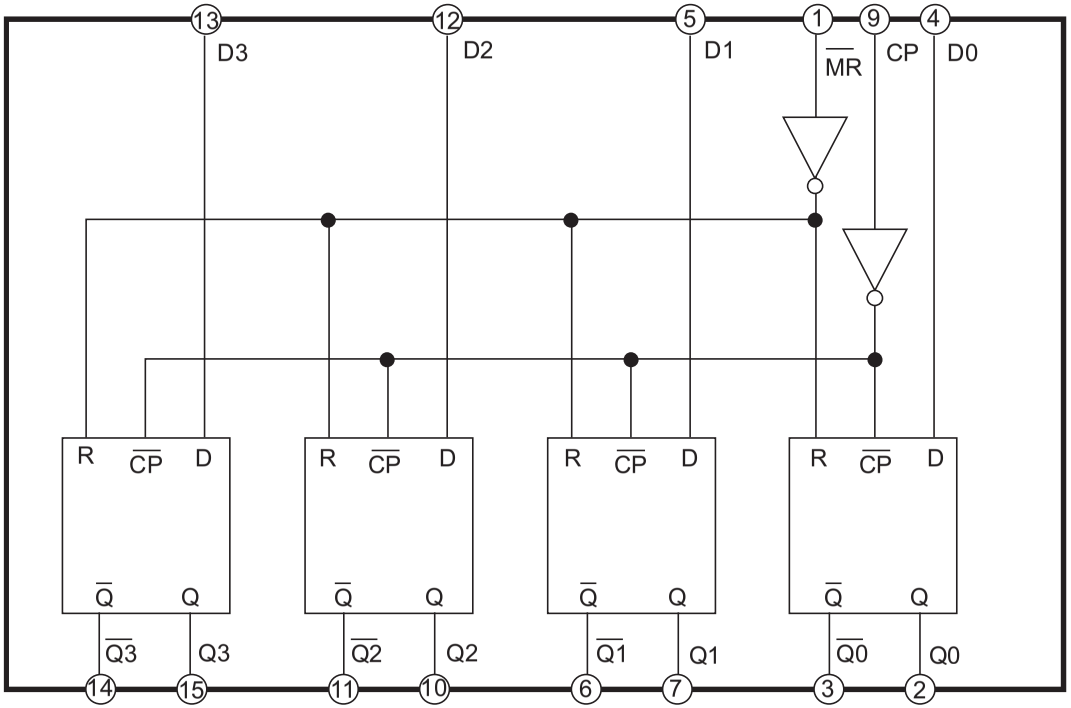
VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

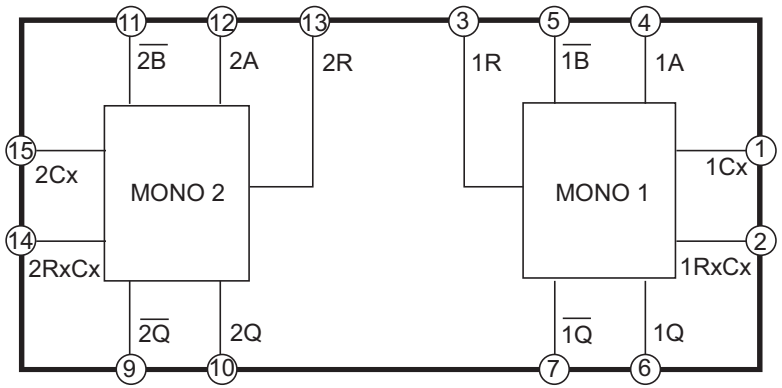


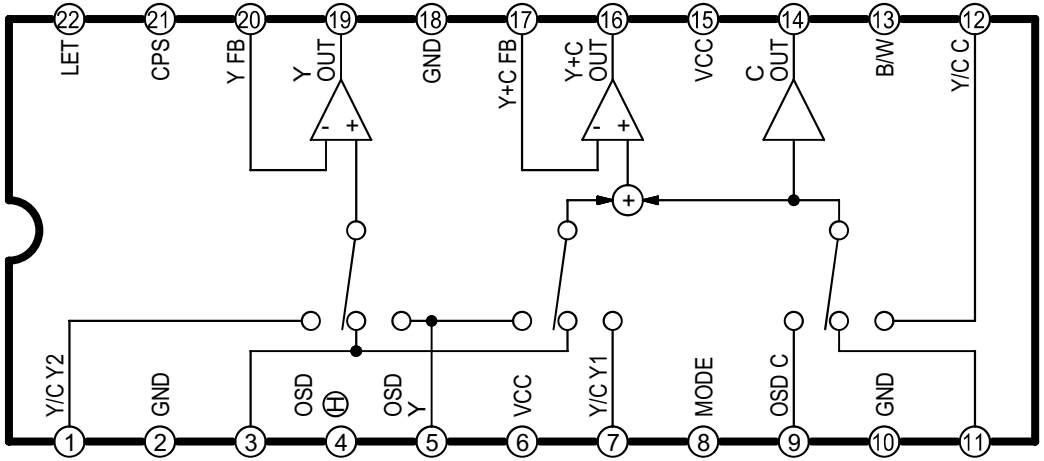
NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

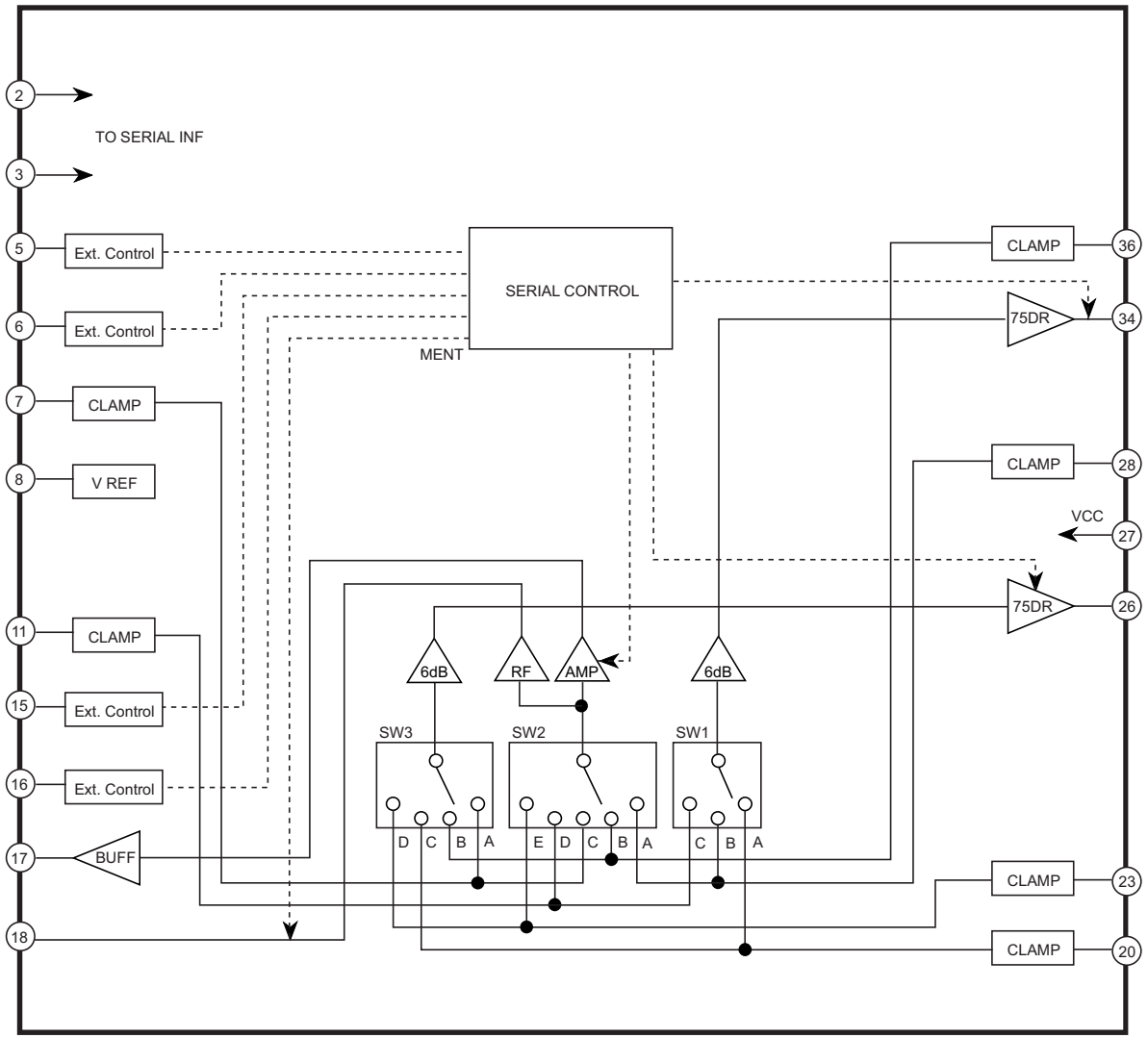

POWER(NPN Tr.X3)
B-EMF DET
CHARGE
DISCHARGE
CIRCUIT
MODE
SELECT
EXTERNAL
SYNC
DIFFERENTIAL
AMPLIFIER
PRESET
1/16
OSC
PG/FG
DISP
WAVE
SHAPER
TORQUE
CONTROL
THD
M1
M2
VM
PG/
FG
VCC
HE+
HE-
PC
ET/
DS
FC
GND
P1
P2
P3
ATC
M3
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

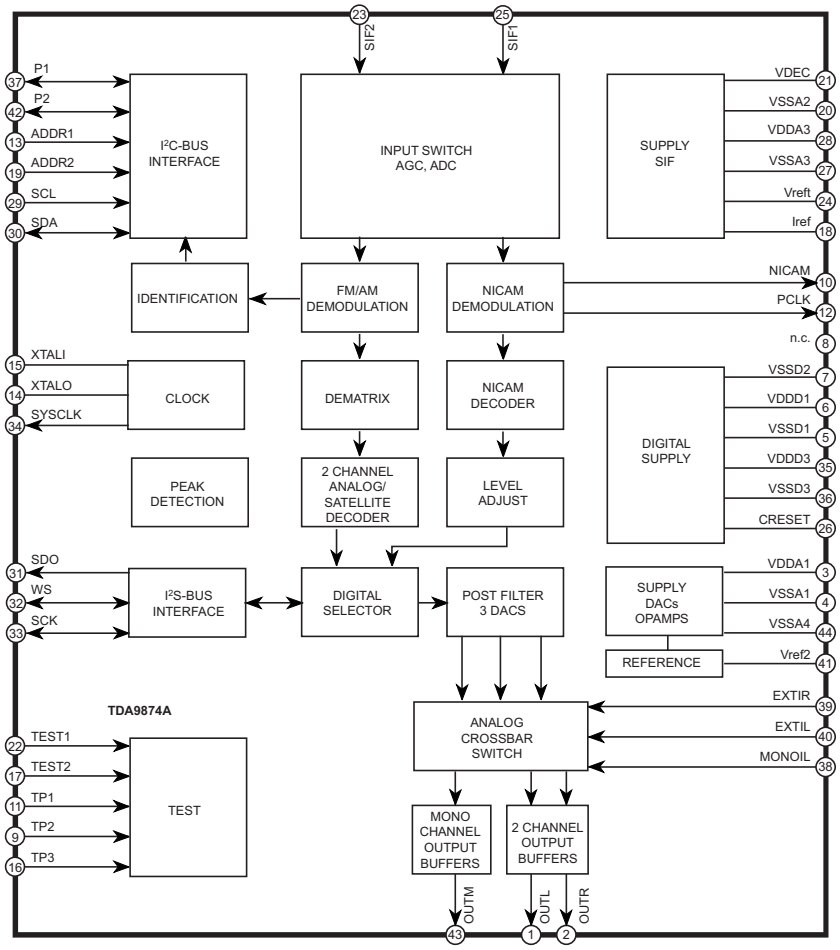

CLK
8
A
1
B
2
CLR
9
C1
1D
R
QA
3
QB
4
QC
5
QD
6
QE
10
QF
11
QG
12
QH
13

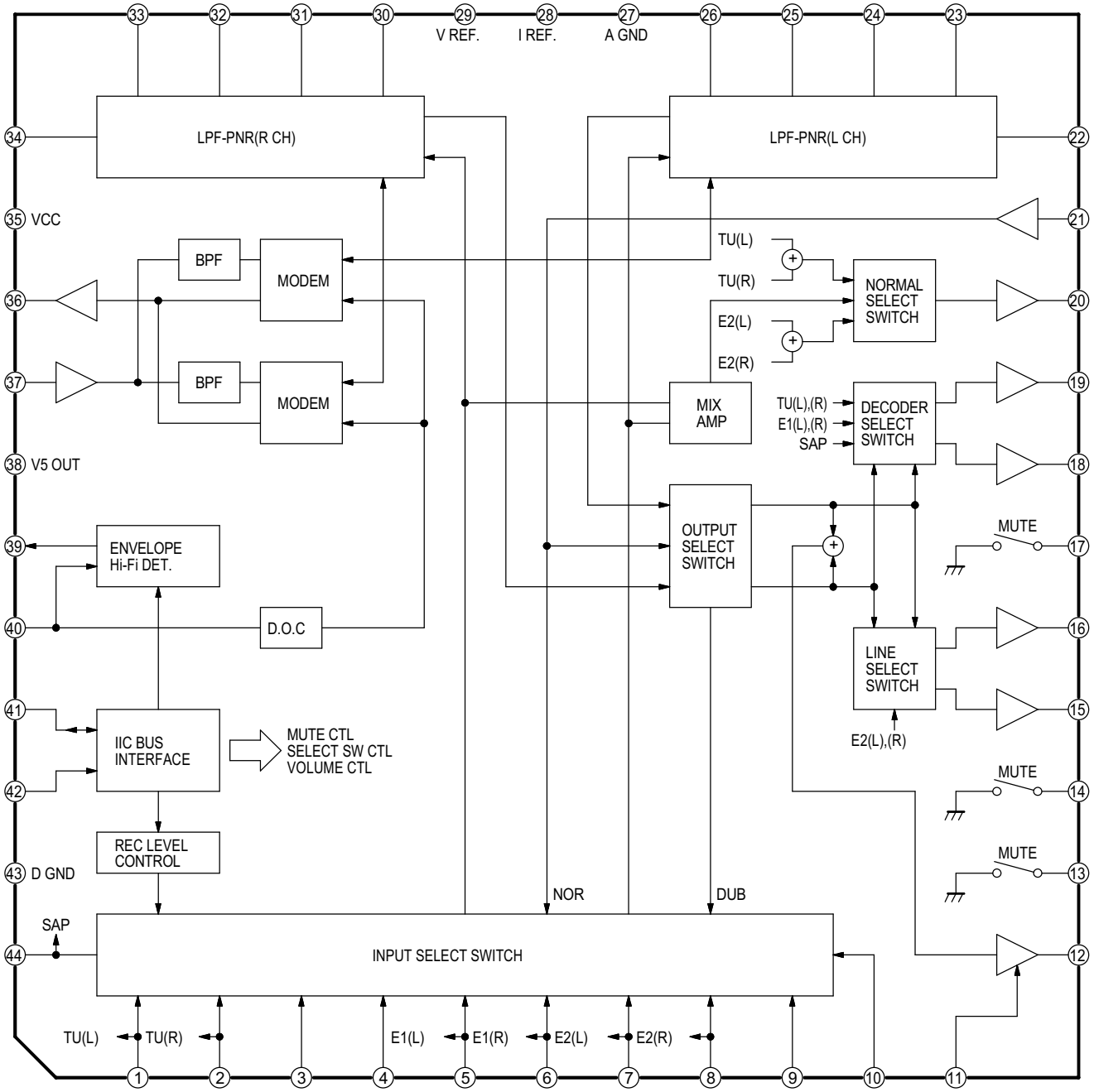

13
D3
12
D2
5
D1
1
MR
9
CP
4
D0
R
CP
D
Q
Q
Q3
Q3
Q2
Q2
Q1
Q1
Q0
Q0
14
15
11
10
6
7
3
2

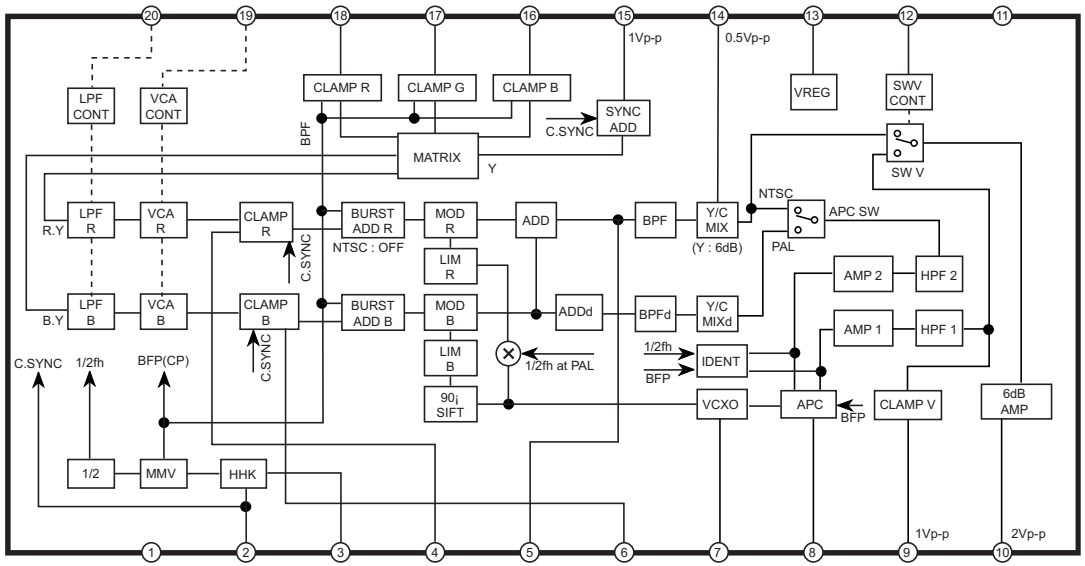

11
12
13
3
5
4
2B
2A
2R
1R
1B
1A
15
2Cx
MONO 2
MONO 1
1
1Cx
14
2RxCx
2
1RxCx
2Q
2Q
1Q
1Q
9
10
7
6

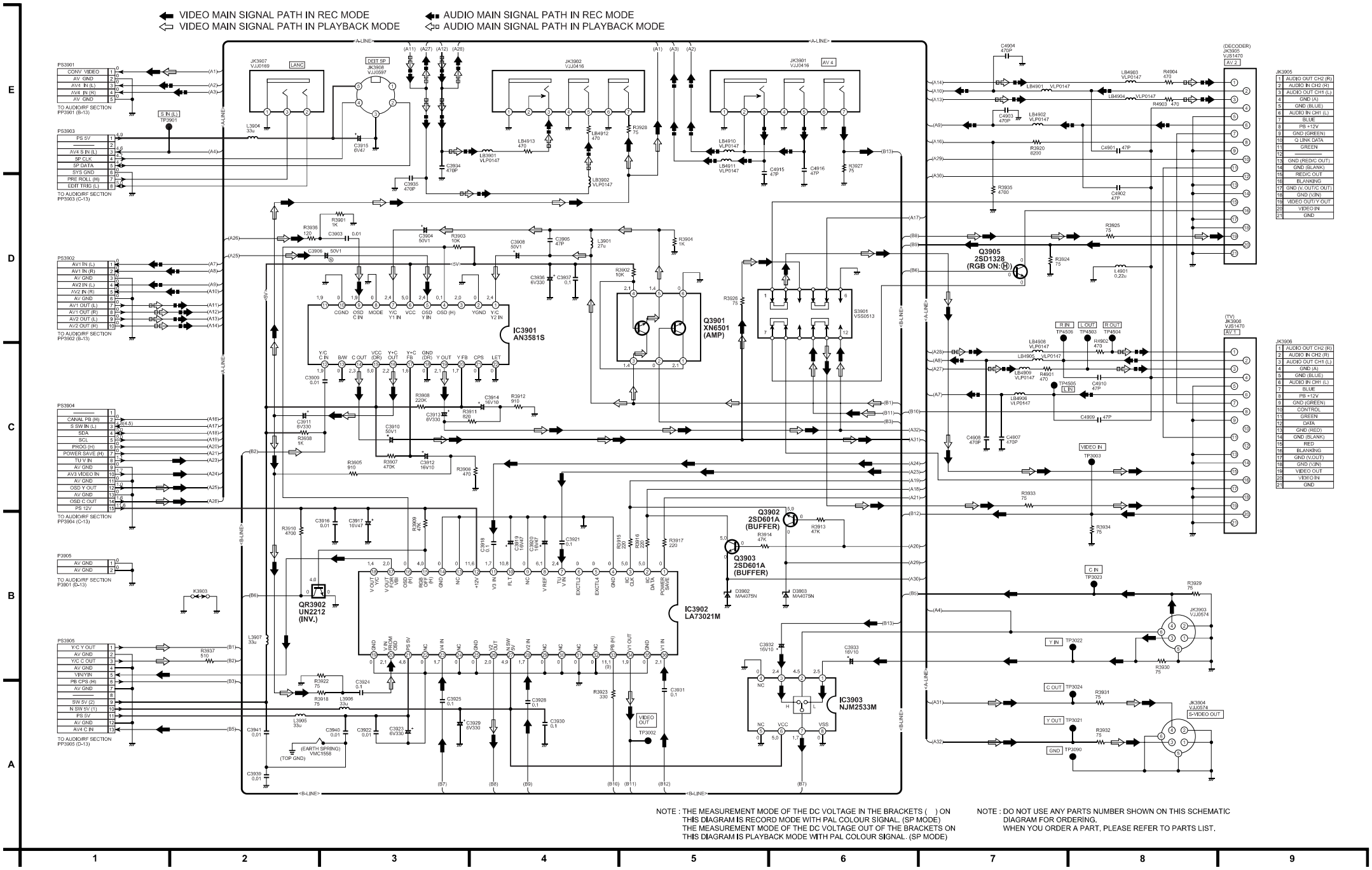

22
LET
21
CPS
20
Y FB
19
Y OUT
18
GND
17
Y+C FB
16
Y+C OUT
15
VCC
14
C OUT
13
B/W
12
Y/C C
1
Y/C Y2
2
GND
3
OSD ⊖
4
OSD Y
5
VCC
6
Y/C Y1
7
MODE
8
OSD C
9
GND
10
11


2
TO SERIAL INF
3
5
Ext. Control
6
Ext. Control
7
CLAMP
8
V REF
11
CLAMP
15
Ext. Control
16
Ext. Control
17
BUFF
18
SERIAL CONTROL
MENT
CLAMP
36
75DR
34
CLAMP
28
VCC
27
75DR
26
6dB
RF
AMP
6dB
SW3
SW2
SW1
D C B A
E D C B A
C B A
CLAMP
23
CLAMP
20


TDA9874A
SIF2
SIF1
P1
P2
ADDR1
ADDR2
SCL
SDA
I²C-BUS INTERFACE
INPUT SWITCH AGC, ADC
SUPPLY SIF
VDEC
VSSA2
VDDA3
VSSA3
Vreft
Iref
IDENTIFICATION
FM/AM DEMODULATION
NICAM DEMODULATION
NICAM
PCLK
n.c.
XTALI
XTALO
SYSCLK
CLOCK
DEMATRIX
NICAM DECODER
DIGITAL SUPPLY
VSSD2
VDDD1
VSSD1
VDDD3
VSSD3
CRESET
PEAK DETECTION
2 CHANNEL ANALOG/ SATELLITE DECODER
LEVEL ADJUST
SDO
WS
SCK
I²S-BUS INTERFACE
DIGITAL SELECTOR
POST FILTER 3 DACS
SUPPLY DACs OPAMPS
VDDA1
VSSA1
VSSA4
REFERENCE
Vref2
EXTIR
EXTIL
MONOIL
ANALOG CROSSBAR SWITCH
TEST1
TEST2
TP1
TP2
TP3
TEST
MONO CHANNEL OUTPUT BUFFERS
2 CHANNEL OUTPUT BUFFERS
OUTM
OUTL
OUTR


33
32
31
30
29
V REF.
28
I REF.
27
A GND
26
25
24
23
LPF-PNR(R CH)
LPF-PNR(L CH)
34
22
35 VCC
21
BPF
MODEM
TU(L)
TU(R)
NORMAL SELECT SWITCH
36
20
E2(L)
E2(R)
BPF
MODEM
37
MIX AMP
TU(L),(R)
E1(L),(R)
SAP
DECODER SELECT SWITCH
19
38 V5 OUT
18
OUTPUT SELECT SWITCH
MUTE
39
ENVELOPE Hi-Fi DET.
17
40
D.O.C
LINE SELECT SWITCH
16
41
IIC BUS INTERFACE
MUTE CTL
SELECT SW CTL
VOLUME CTL
15
E2(L),(R)
MUTE
42
14
REC LEVEL CONTROL
MUTE
43 D GND
13
NOR
DUB
SAP
44
INPUT SELECT SWITCH
12
TU(L)
TU(R)
E1(L)
E1(R)
E2(L)
E2(R)
1
2
3
4
5
6
7
8
9
10
11


20
19
18
17
16
15
14
13
12
11
1Vp-p
0.5Vp-p
LPF CONT
VCA CONT
CLAMP R
CLAMP G
CLAMP B
SYNC ADD
C.SYNC
VREG
SWV CONT
BPF
MATRIX
Y
SW V
NTSC
R.Y
LPF R
VCA R
CLAMP R
BURST ADD R
NTSC : OFF
MOD R
ADD
BPF
Y/C MIX
(Y : 6dB)
PAL
APC SW
C.SYNC
LIM R
AMP 2
HPF 2
B.Y
LPF B
VCA B
CLAMP B
BURST ADD B
MOD B
ADDd
BPFd
Y/C MIXd
AMP 1
HPF 1
LIM B
1/2fh at PAL
1/2fh
BFP
IDENT
C.SYNC
1/2fh
BFP(CP)
90j SIFT
VCXO
APC
BFP
CLAMP V
6dB AMP
1/2
MMV
HHK
1Vp-p
2Vp-p
1
2
3
4
5
6
7
8
9
10



NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

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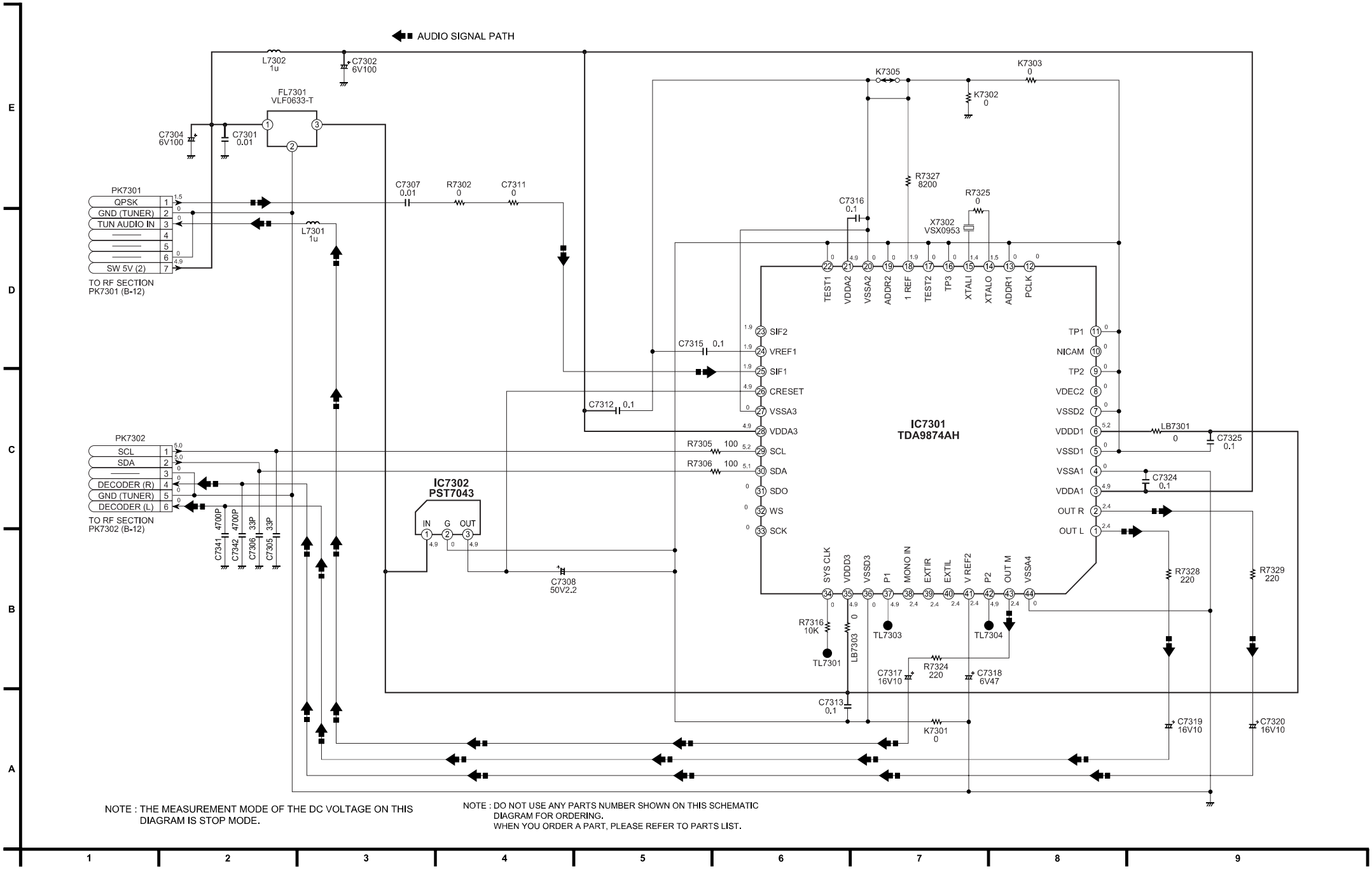
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.



NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

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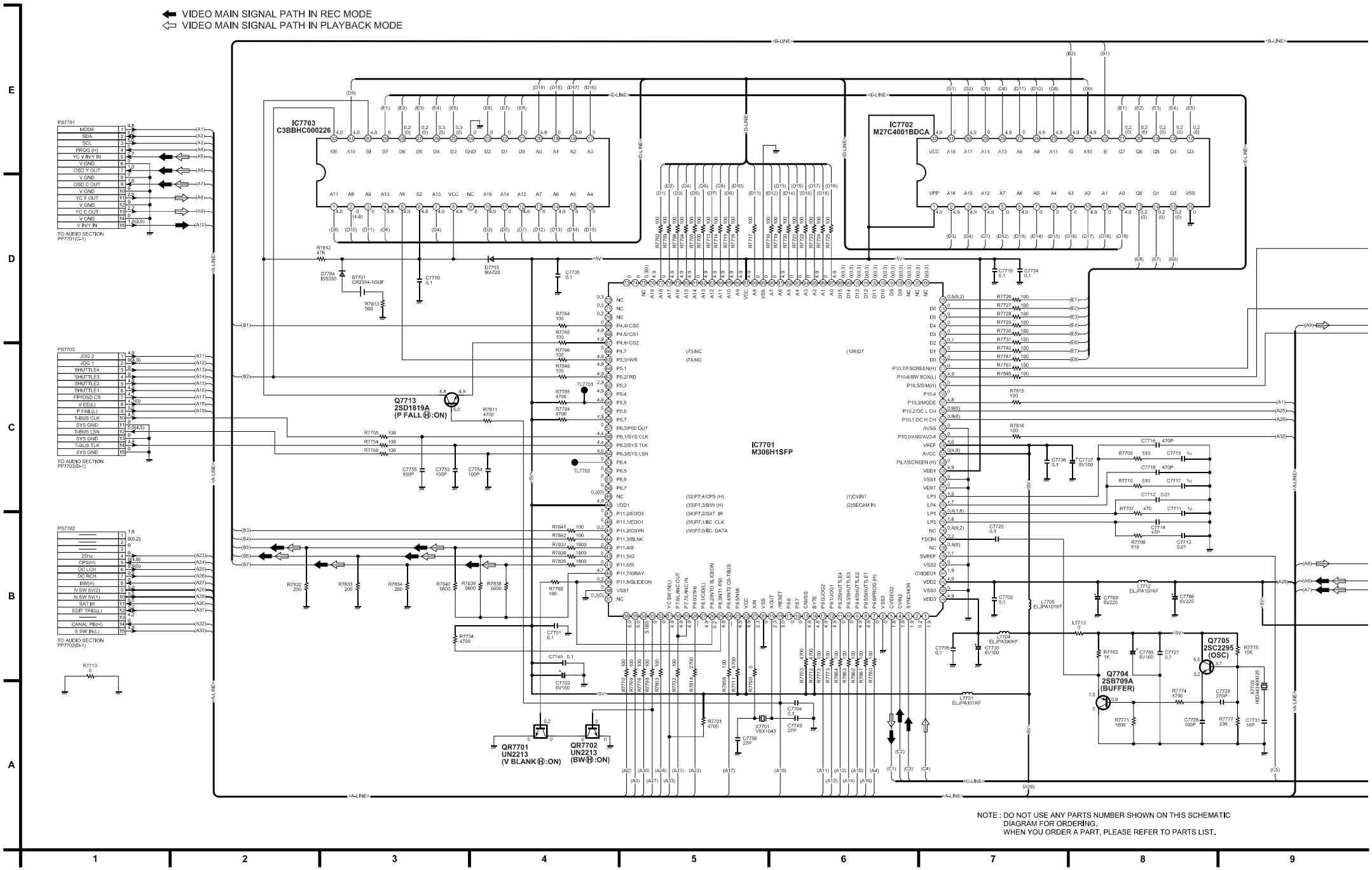
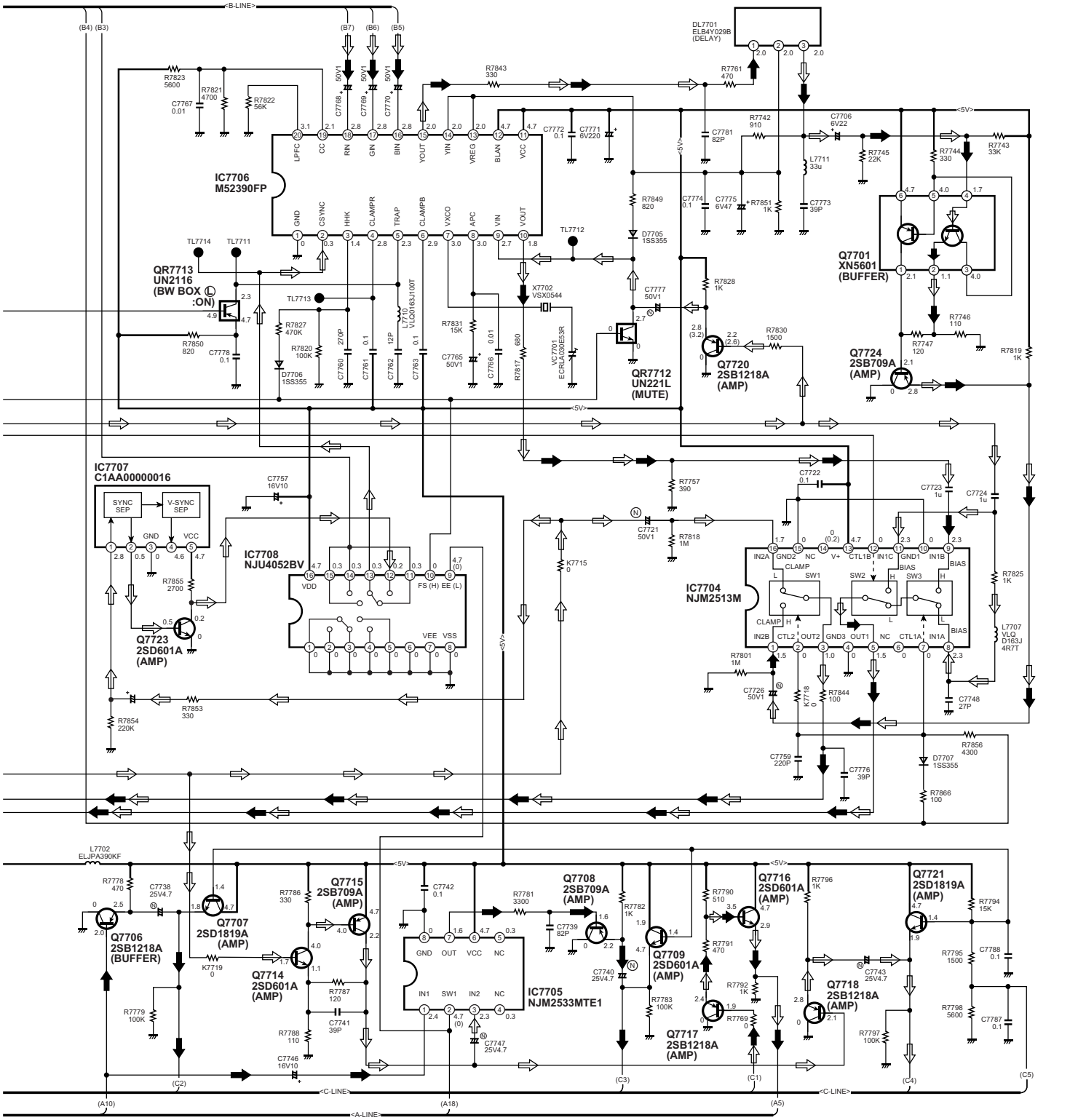

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
IC7703
C3BBHC000226
IC7702
M27C4001BDCA
IC7701
M306H1SFP
Q7713
2SD1819A
(P FALL⊕:ON)
QR7701
UN2213
(V BLANK⊕:ON)
QR7702
UN2213
(BW⊕:ON)
Q7704
2SB709A
(BUFFER)
Q7705
2SC2295
(OSC)
X7701
VSX1043
X7703
HDO4340002S
L7701
ELJPA101KF
L7704
ELJPA390KF
L7705
ELJPA101KF
L7712
ELJPA101KF
TO AUDIO SECTION
PP7701(C-1)
TO AUDIO SECTION
PP7703(D-1)
TO AUDIO SECTION
PP7702(D-1)
<A-LINE>
<B-LINE>
<C-LINE>
<D-LINE>
<E-LINE>
NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC
DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

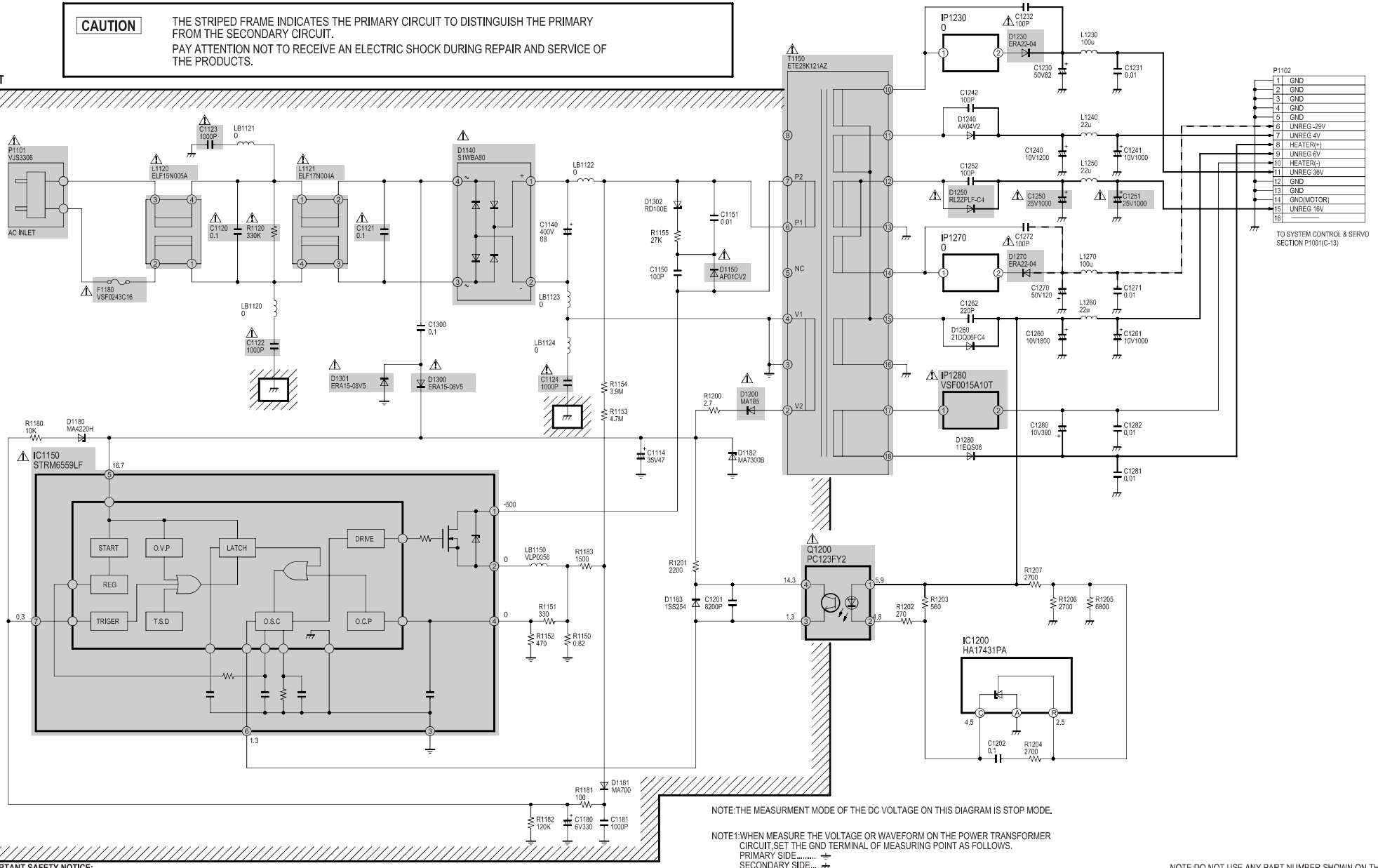


NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

CAUTION THE STRIPED FRAME INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

HOT



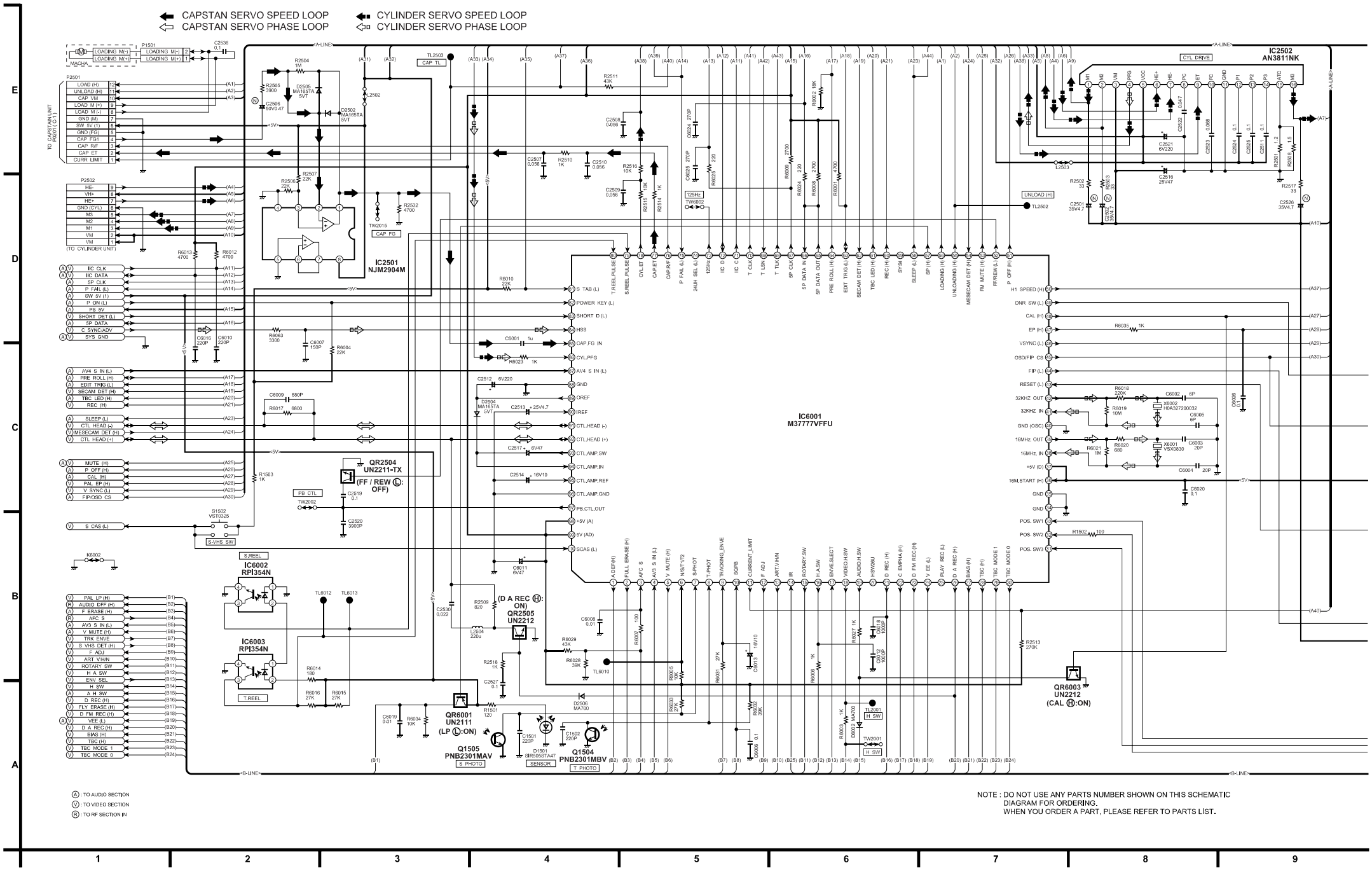
NOTE:THE MEASURMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

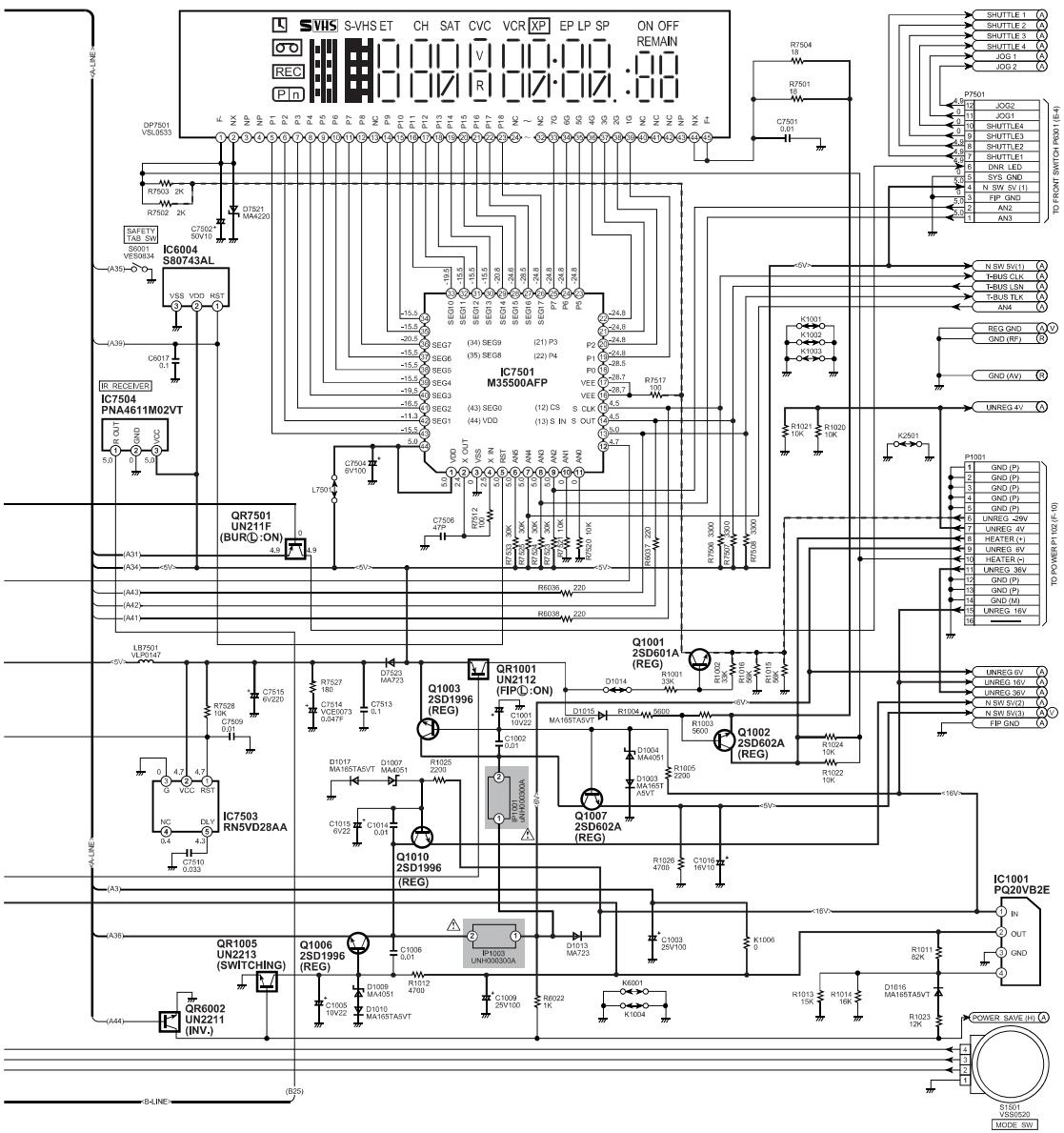
NOTE1:WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT,SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
PRIMARY SIDE..... ⏚
SECONDARY SIDE... ⏚

NOTE2:THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 220V.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,USE ONLY THE SAME TYPE.

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.


CAPSTAN SERVO SPEED LOOP
CAPSTAN SERVO PHASE LOOP
CYLINDER SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP
IC2502 AN3811NK
IC2501 NJM2904M
IC6001 M37777VFFU
IC6002 RPI354N
IC6003 RPI354N
QR2504 UN2211-TX (FF / REW Ⓛ: OFF)
QR2505 UN2212 (D A REC Ⓗ: ON)
QR6001 UN2111 (LP Ⓛ:ON)
QR6003 UN2212 (CAL Ⓗ:ON)
Q1505 PNB2301MAV S PHOTO
Q1504 PNB2301MBV T PHOTO
TO CAPSTAN UNIT PG201 (C-1)
(TO CYLINDER UNIT)
S-VHS SW
S.REEL
T.REEL
PB CTL
CAP TL
CAP FG
UNLOAD (H)
CYL DRIVE
125Hz
A-LINE
B-LINE
(A) : TO AUDIO SECTION
(V) : TO VIDEO SECTION
(R) : TO RF SECTION IN
NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.



NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE.

NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

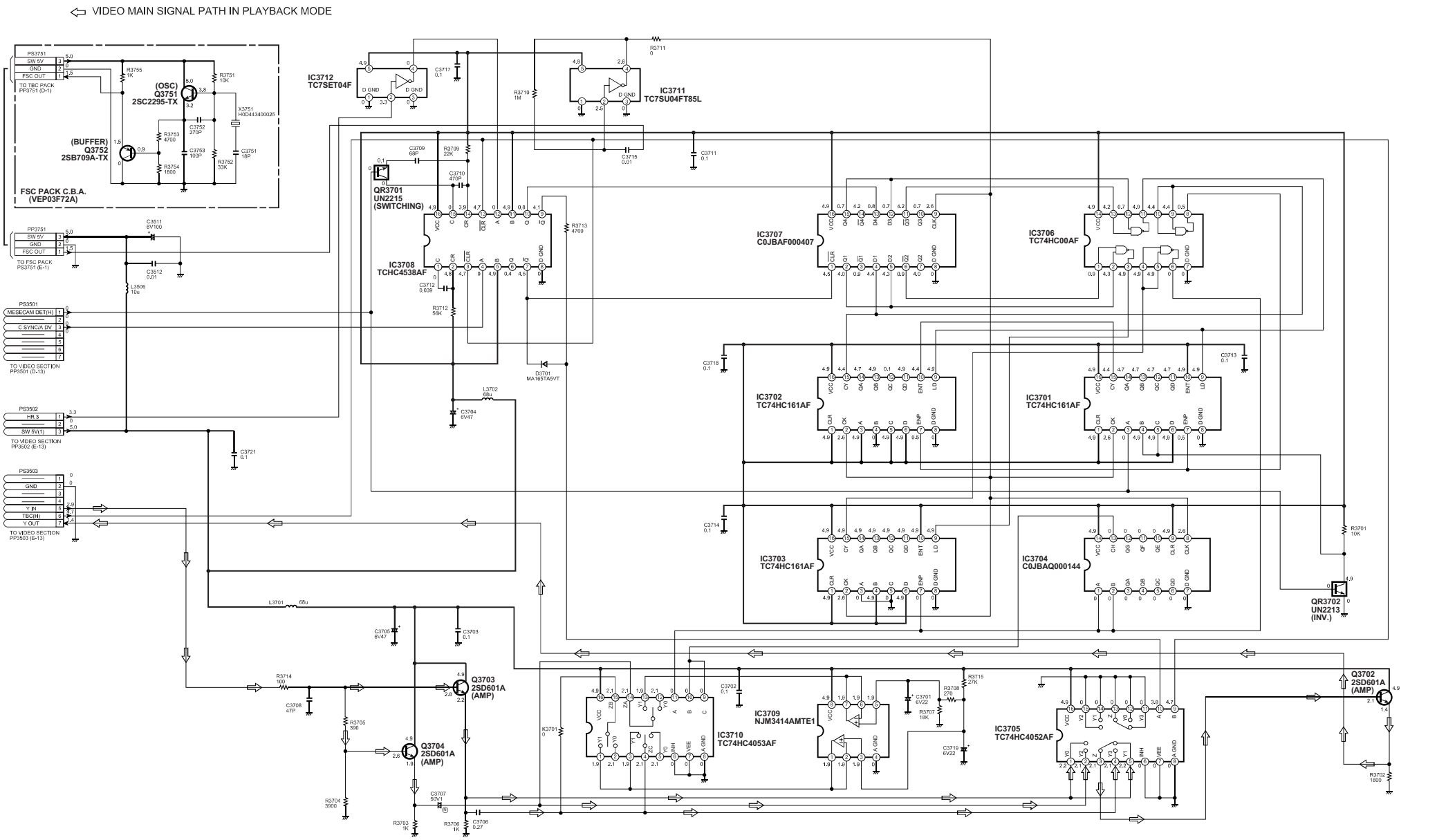
SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (SP MODE)

Ref.No.	IC1001										IC2501									
MODE	1	2	3	4							1	2	3	4	5	6	7	8		
STOP	15.9	14.1	0	1.1							2.4	2.4	2.4	0	0	0	0	4.9		
PLAY	15.4	14.1	0	1.1							2.4	2.4	2.4	0	0	0	0	4.9		
REC	15.4	14.1	0	1.1							2.4	2.4	2.4	0	0	0	0	4.9		
F.F	15.4	14.1	0	1.1							2.4	2.4	2.4	0	0	0	0	4.9		
REW	15.4	14.1	0	1.1							2.4	2.4	2.4	0	0	0	0	4.9		
Ref.No.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	4.3	0	2.3	4.6	0	5	4.9	4.7	1.8	0	0	1.9	0	5.0	0	0	4.5	4.7	0	4.7
PLAY	4.3	0	2.3	4.6	0	5	4.9	4.7	3.2	0	4.7	1.9	0	5.0	4.3	0	4.5	4.7	4.6	4.7
REC	4.3	4.6	2.3	4.6	0	5	4.9	4.7	3.4	0	4.7	1.9	0	5.0	4.3	0	4.5	4.7	0	4.7
F.F	4.3	0	2.3	4.6	0	5	4.9	4.7	0.7	0	4.9	1.9	0	5.0	0	0	4.5	4.7	0	4.7
REW	4.3	0	2.3	4.6	0	5	4.9	4.7	3.2	0	4.9	1.9	0	5.0	0	0	4.5	4.7	0	4.7
Ref.No.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	0	0	4.7	0	0	0	4.7	4.7	4.7	0	0	0	0	4.7	4.7	-	-	0
PLAY	0	0	0	4.7	4.7	0	0	4.7	4.7	4.7	4.7	0	0	0	0	4.7	4.7	-	-	0
REC	4.6	4.6	4.6	0	4.7	4.6	4.6	0	4.7	4.7	4.7	0	0	0	0	4.7	4.7	-	-	0
F.F	0	0	0	0	4.7	0	0	0	4.7	4.7	4.7	4.7	0	0	0	4.7	4.7	-	-	0
REW	0	0	0	0	4.7	0	0	0	4.7	4.7	4.7	4.7	0	0	0	4.7	4.7	-	-	0
Ref.No.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	1.0	1.3	4.7	0	4.7	0	0	0	0	0	0	4.7	0	0	0	0	4.7	4.7	4.7	0
PLAY	1.0	1.3	4.7	0	4.7	0	0	0	0	0.3	0	4.7	0	0	0	0	4.7	4.7	4.7	0
REC	1.0	1.3	4.7	0	3.5	0	0	0	0	0.3	0	4.7	0	0	0	0	4.7	4.7	4.7	4.7
F.F	1.0	1.3	4.7	0	4.7	0	0	0	0	4.6	0	0	0	0	0	0	4.7	4.7	4.7	0
REW	1.0	1.3	4.7	0	4.7	0	0	0	0	4.6	0	0	0	0	0	0	4.7	4.7	4.7	0
Ref.No.	IC6001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	4.6	0	5.0	0	4.7	4.7	4.7	4.3	4.5	4.5	2.7	3.5	0	0	5.0	0	0	2.3	4.9	4.9
PLAY	4.6	0	5.0	0	4.7	4.7	4.7	4.3	4.5	4.5	3.5	2.5	0	0	5.0	0	2.4	2.3	4.9	4.9
REC	4.6	0	5.0	0	4.9	4.9	4.9	4.3	4.5	4.5	3.5	2.5	0	0	5.0	0	2.4	2.3	4.9	4.9
F.F	4.6	0	5.0	0	4.7	4.7	4.7	4.3	4.5	4.5	2.7	3.5	0	0	5.0	0	4.7	2.3	2.4	2.4
REW	4.6	0	5.0	0	4.7	4.7	4.7	4.3	4.5	4.5	2.7	3.5	0	0	5.0	4.7	4.7	2.3	2.4	2.4
Ref.No.	IC6001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	0	5.0	0.3	0.3	2.4	1.3	4.6	0	2.4	2.4	0	0	0	2.4	2.4	0	2.4	5.0	5.0	4.7
PLAY	0	5.0	0.3	0	2.4	1.3	4.6	0	2.4	2.4	0	0	0	2.4	2.4	0	2.4	5.0	5.0	4.7
REC	0	5.0	4.6	0.3	2.4	1.3	4.6	0	2.4	2.4	2.7	2.7	0	2.4	2.4	0	2.4	5.0	5.0	4.7
F.F	0	5.0	0.3	0.3	2.4	1.3	4.6	0	2.4	2.4	0	0	0	2.4	2.4	0	2.4	5.0	5.0	4.7
REW	0	5.0	0.3	0.3	2.4	1.3	4.6	0	2.4	2.4	0	0	0	2.4	2.4	0	2.4	5.0	5.0	4.7
Ref.No.	IC6002					IC6003					IC6004									
MODE	1	2	3	4		1	2	3	4		1	2	3							
STOP	0	1.0	4.9	0		1.0	2.2	4.9	0		5.0	5.0	0							
PLAY	0	1.0	4.9	0		1.0	2.2	4.9	0		5.0	5.0	0							
REC	0	1.0	4.9	0		1.0	2.2	4.9	0		5.0	5.0	0							
F.F	0	1.0	2.4	0		1.0	2.2	4.9	0		5.0	5.0	0							
REW	0	1.0	2.4	0		1.0	2.2	4.9	0		5.0	5.0	0							

SYSTEM CONTROL & SERVO TRs DC VOLTAGE CHART (SP MODE)

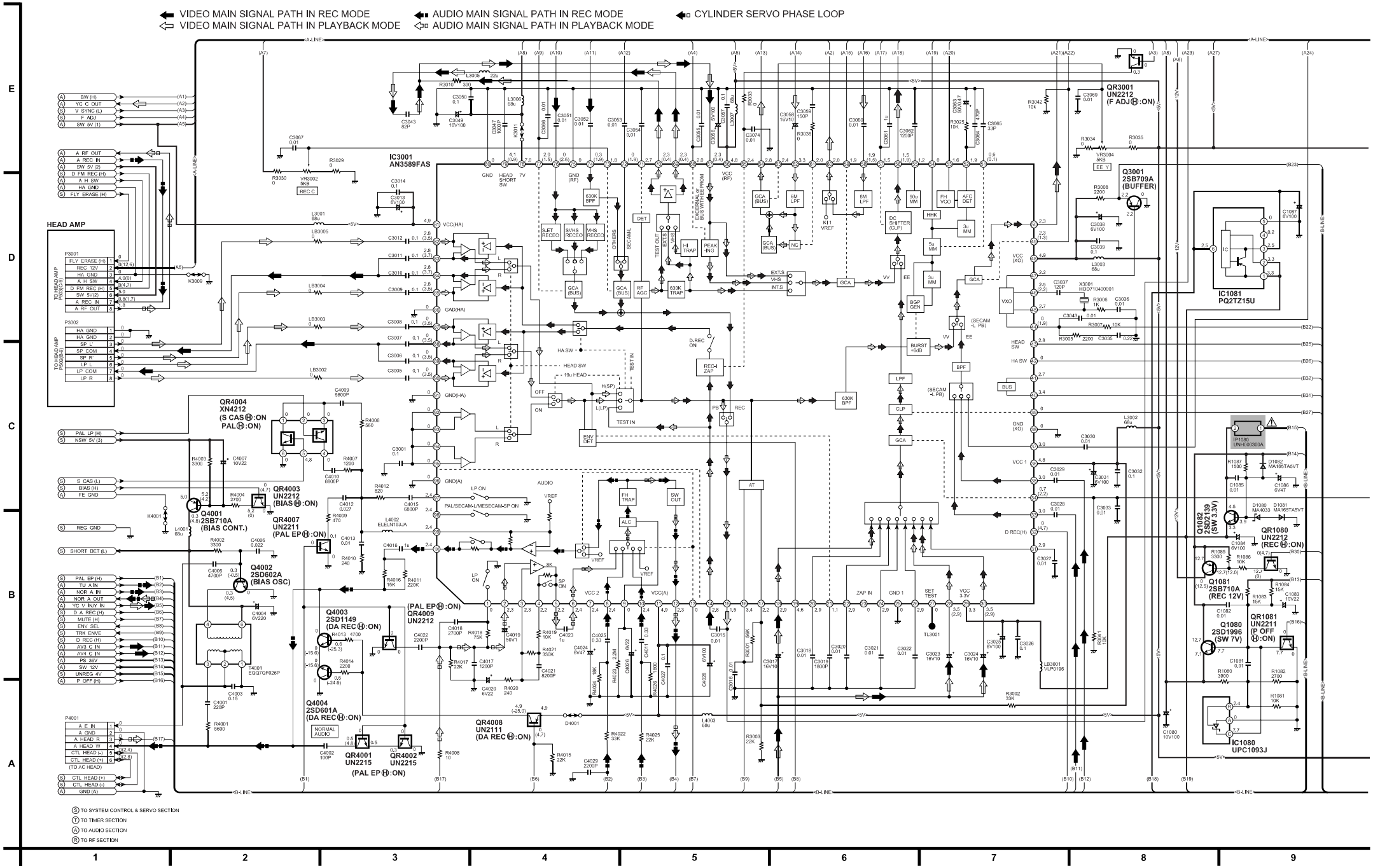
Ref.No.	Q1001			Q1003			Q1006			Q1007			Q1010			Q1504		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	+	-	
STOP	-29.1	-29.0	-28.4	5.0	5.6	5.7	5.0	5.6	5.6	5.1	5.6	5.7	5.0	5.6	5.6	4.7	0	
PLAY	-29.1	-29.0	-28.4	5.0	5.6	5.7	5.0	5.6	5.6	5.1	5.6	5.7	5.0	5.6	5.6	4.7	0	
REC	-29.4	-29.0	-28.4	5.0	5.6	5.7	5.0	5.6	5.6	5.1	5.6	5.7	5.0	5.6	5.6	4.7	0	
F.F	-29.4	-29.4	-28.7	5.0	5.6	5.7	5.0	5.6	5.6	5.1	5.6	5.7	5.0	5.6	5.6	4.7	0	
REW	-29.4	-29.4	-28.7	5.0	5.6	5.7	5.0	5.6	5.6	5.1	5.6	5.7	5.0	5.6	5.6	4.7	0	
Ref.No.	Q1505																	
MODE	+	-																
STOP	4.9	0																
PLAY	4.9	0																
REC	4.9	0																
F.F	4.9	0																
REW	4.9	0																
Ref.No.	QR1001			QR1005			QR2504			QR2505			QR6001			QR6002		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	5.0	4.9	0	0	5.6	0	0	0	4.7	0	0	0	4.9	0	4.7	0	0	4.7
PLAY	5.0	4.9	0	0	5.6	0	0	0	4.7	0	0	0	4.9	0	4.7	0	0	4.7
REC	5.0	4.9	0	0	5.6	0	0	0	4.7	0	0	4.4	4.9	0	4.7	0	0	4.7
F.F	5.0	4.9	0	0	5.6	0	0	1.8	0	0	0	0	4.9	0	4.7	0	0	4.7
REW	5.0	4.9	0	0	5.6	0	0	1.8	0	0	0	0	4.9	0	4.7	0	0	4.7
Ref.No.	QR6003																	
MODE	E	C	B															
STOP	0	0	0															
PLAY	0	4.3	0															
REC	0	0	0															
F.F	0	0	0															
REW	0	0	0															

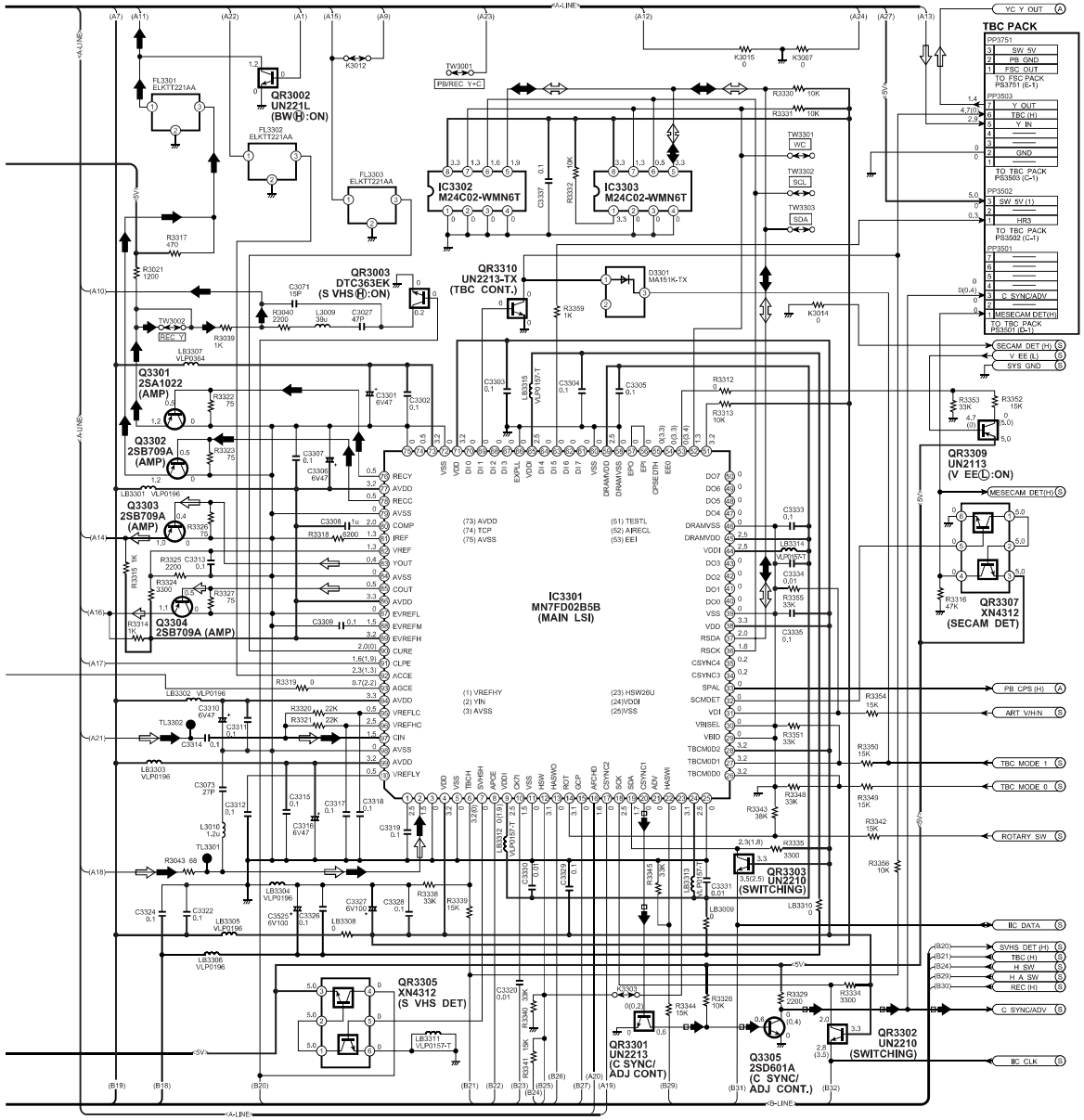
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE



NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.


VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
CYLINDER SERVO PHASE LOOP
IC3001 AN3589FAS
QR3001 UN2212 (F ADJ Ⓗ:ON)
Q3001 2SB709A (BUFFER)
IC1081 PQ2TZ15U
IC1080 UPC1093J
HEAD AMP
Q4001 2SB710A (BIAS CONT.)
Q4002 2SD602A (BIAS OSC)
QR4004 XN4212 (S CAS Ⓗ:ON PAL Ⓗ:ON)
QR4003 UN2212 (BIAS Ⓗ:ON)
QR4007 UN2211 (PAL EP Ⓗ:ON)
Q4003 2SD1149 (DA REC Ⓗ:ON)
QR4009 UN2212
(PAL EP Ⓗ:ON)
Q4004 2SD601A (DA REC Ⓗ:ON)
QR4008 UN2111 (DA REC Ⓗ:ON)
QR4001 UN2215 (PAL EP Ⓗ:ON)
QR4002 UN2215
Q1082 2SD2139 (SW 3.3V)
QR1080 UN2212 (REC Ⓗ:ON)
Q1081 2SB710A (REC 12V)
QR1081 UN2211 (P OFF Ⓗ:ON)
Q1080 2SD1996 (SW 7V)
Ⓢ TO SYSTEM CONTROL & SERVO SECTION
Ⓣ TO TIMER SECTION
Ⓐ TO AUDIO SECTION
Ⓡ TO RF SECTION



IMPORTANT SAFETY NOTICE:
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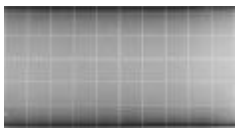
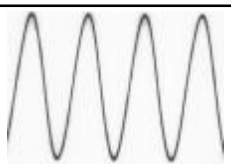
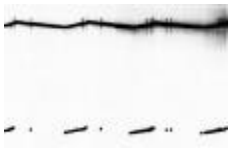
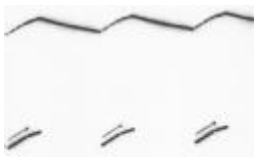
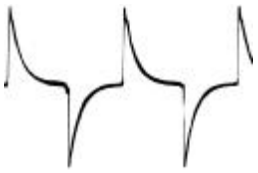
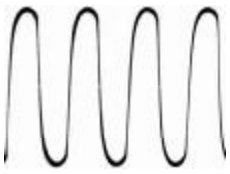
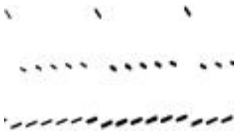
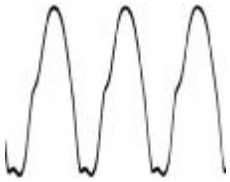
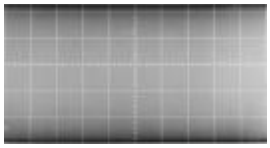
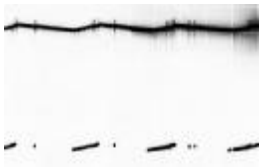
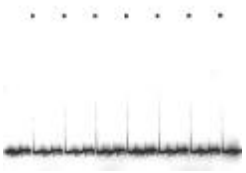
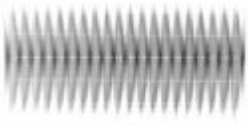
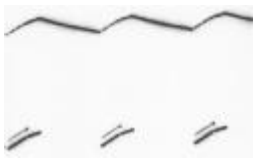
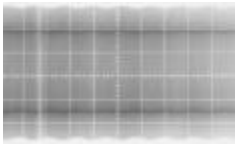
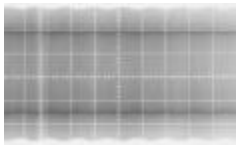
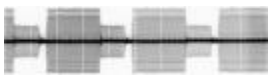
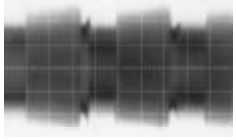
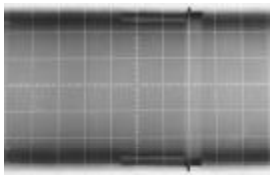
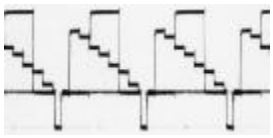
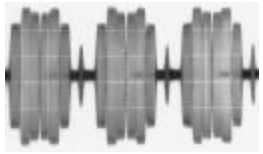
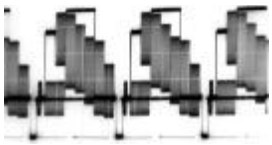
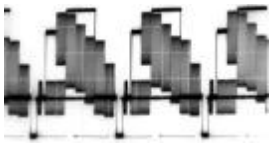
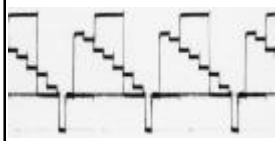
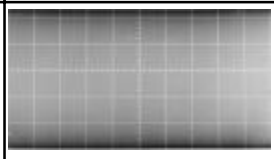
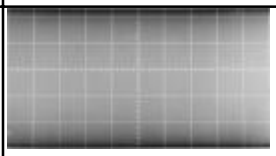
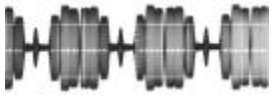
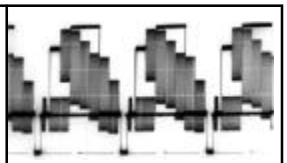
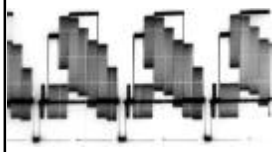
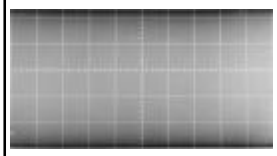
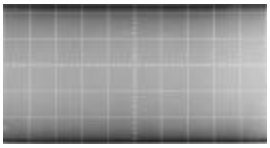
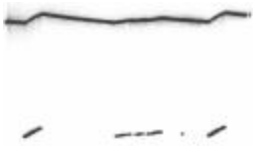
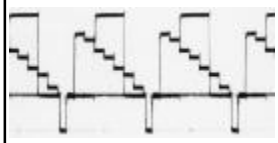
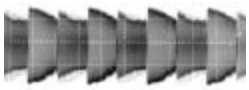
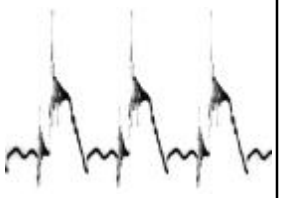
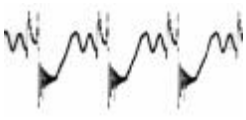
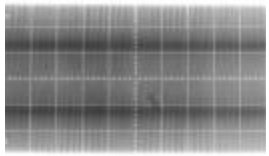
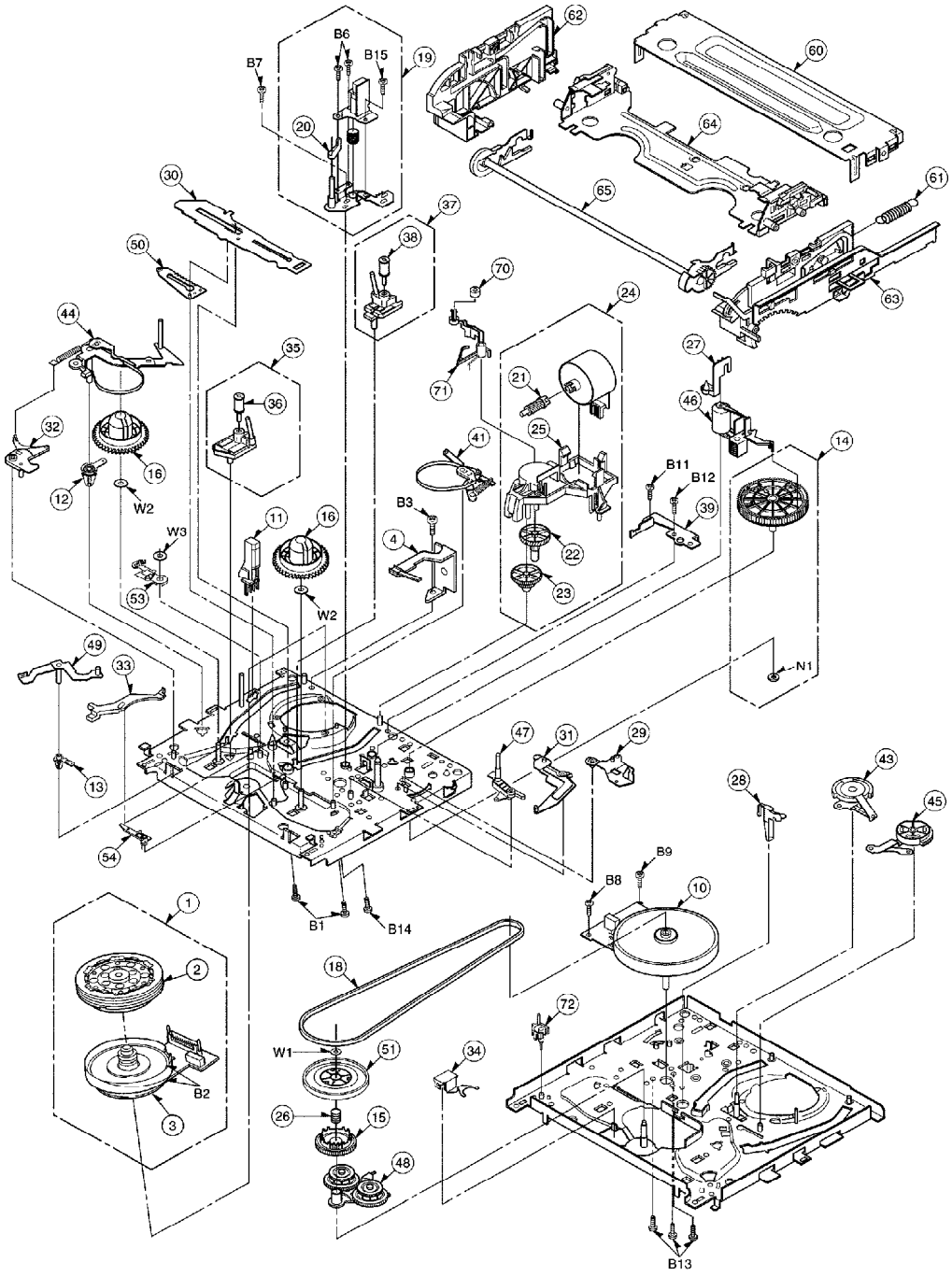
NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

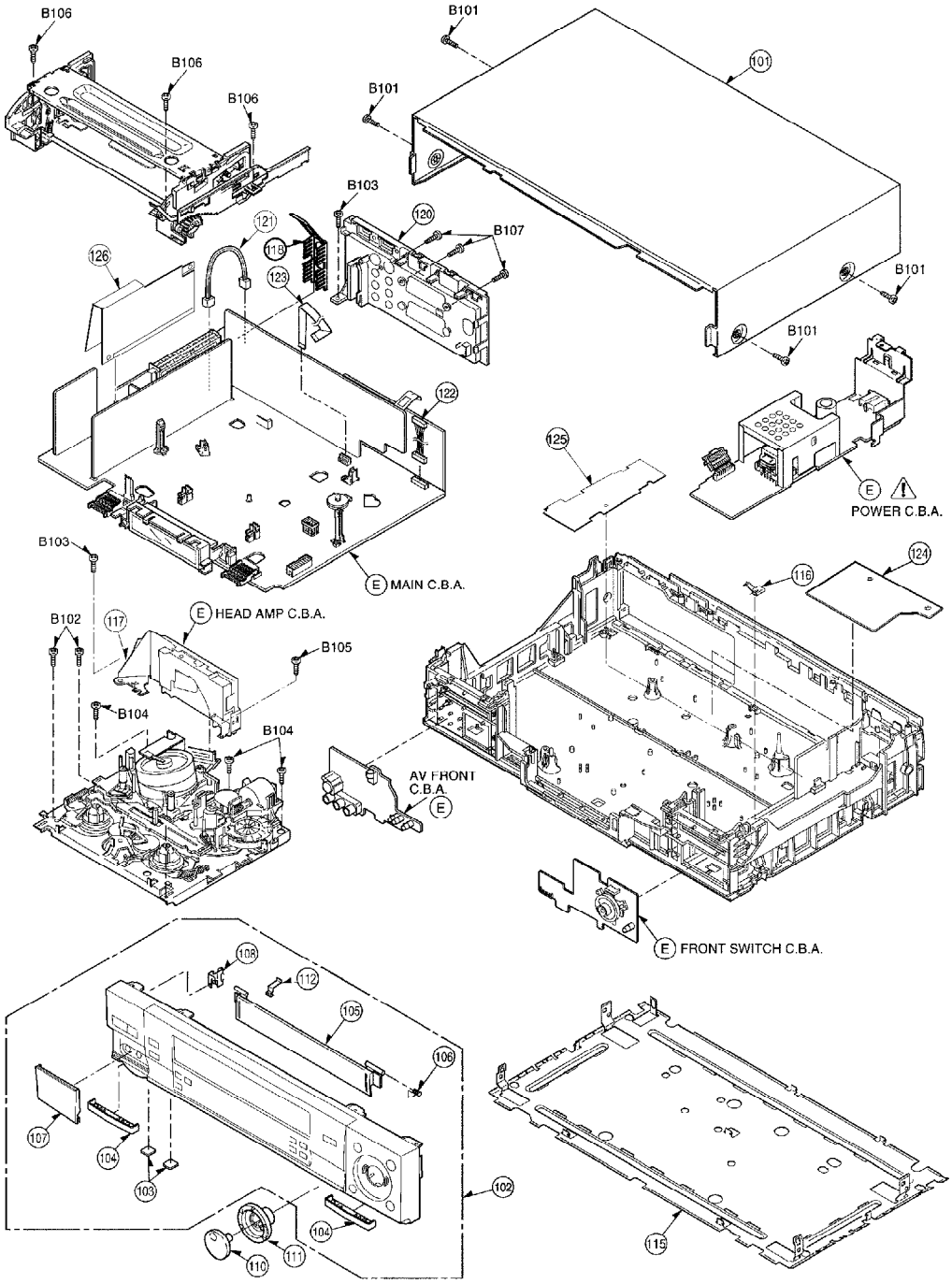
 IC6001- 18,19 PLAY/ REC 7.0Vp-p (10msec. div.)	 IC6001- 38 PLAY/ REC 1.0Vp-p (20usec. div.) IC6001- 39 PLAY/ REC 1.8Vp-p (20usec. div.)	 IC6001- 41 PLAY/ REC 1.2Vp-p (10usec. div.) IC6001- 42 PLAY/ REC 2.8Vp-p (10usec. div.)	 IC6001- 68 PLAY/ REC 5.5Vp-p (2msec. div.)	 IC6001- 69 PLAY/ REC 5.5Vp-p (5msec. div.)
 IC6001- 70 PLAY/ REC 5.5Vp-p (5msec. div.)	 IC6001- 71 PLAY/ REC 6.0Vp-p (5msec. div.)	 IC6001- 72 PLAY/ REC 6.0Vp-p (5msec. div.)	 IC6001- 77 PLAY/ REC 4.0Vp-p (5usec. div.) IC6001- 78 PLAY/ REC 5.0Vp-p (5usec. div.)	 IC6001- 79,80 PLAY/ REC 7.0Vp-p (0.2sec. div.)
 IC6001- 85 PLAY/ REC 0.7Vp-p (0.5msec. div.)	 IC6001- 86 PLAY/ REC IC2502- 4 PLAY/ REC 5.5Vp-p (10msec. div.)	 IC2502- 1,16 PLAY/ REC 8.2Vp-p (2msec. div.)	 IC2502- 6 PLAY/ REC 200mVp-p (10msec. div.)	 IC2502- 7 PLAY/ REC 200mVp-p (10msec. div.)
 IC7501- 2,4 STOP 0.8Vp-p (0.1msec. div.)	 IC7501- 14 STOP 120mVp-p (5msec. div.)	 IC7501- 15 STOP 5.0Vp-p (5msec. div.)	 IC7501- 19 - 43 STOP 40Vp-p (5msec. div.)	 IC6701- 5 PLAY/ REC 6.0Vp-p (5msec. div.) IC6701- 6 PLAY/ REC 5.5Vp-p (5msec. div.)
 IC3001- 5,6 PLAY 60mVp-p (5msec. div.) IC3001- 12 PLAY 0.45Vp-p (5msec. div.)	 IC3001- 40 PLAY 6.0Vp-p (5musec. div.) IC3301- 19 PLAY 4.0Vp-p (5musec. div.)	 IC3001- 41 PLAY 6.0Vp-p (5msec. div.) IC3301- 18 PLAY 3.7Vp-p (10msec. div.)	 IC3001- 43 PLAY IC3301- 12 PLAY 4.5Vp-p (10msec. div.)	 IC3001- 45 PLAY 90mVp-p (50usec. div.) IC3001- 46 PLAY 220mVp-p (50usec. div.)
 IC3001- 47 PLAY 0.5Vp-p (50usec. div.)	 IC3001- 50 PLAY 1.0Vp-p (5msec. div.) IC3301- 97 PLAY 1.2Vp-p (2msec. div.)	 IC3001- 56 PLAY IC3301- 2 PLAY 1.3Vp-p (20usec. div.)	 IC3001- 58,60 PLAY 0.8Vp-p (20usec. div.)	 IC3001- 62 PLAY IC3301- 83 PLAY 0.9Vp-p (20usec. div.) IC3001- 64 PLAY 1.1Vp-p (20usec. div.)

 IC551- 14 PLAY 1.0Vp-p (10usec. div.)	 P501- 2 REC P502- 4 REC 1.2Vp-p (2msec. div.)	 IC3901- 1,5,7 PLAY/ REC 1.0Vp-p (20usec. div.) IC3901- 19 PLAY/ REC 2.0Vp-p (20usec. div.)	 IC3901- 9,12 PLAY 150mVp-p (20usec. div.) IC3901- 14 PLAY 1.3Vp-p (20usec. div.)	 IC3901- 9,12 REC 120mVp-p (20usec. div.) IC3901- 14 REC 1.0Vp-p (20usec. div.)
 IC3901- 16 REC IC3902- 17,26,34 REC 2.0Vp-p (20usec. div.)	 IC3902- 20 REC IC3902-36 REC 1.0Vp-p (20usec. div.)	 IC3902- 2,3 PLAY/REC 5.5Vp-p (5msec. div.)	 IC3902- 20 PLAY 1.0Vp-p (20usec. div.) IC3902- 34 PLAY 2.0Vp-p (20usec. div.)	 Q3702- B,E PLAY IC3705- 1 - 5 PLAY PS3503- 5,7 PLAY 1.0Vp-p (20usec. div.)
 IC3701- 2 PLAY IC3702- 2 PLAY IC3703- 2 PLAY IC3704- 8 PLAY 1.7Vp-p (20usec. div.)	 IC3707- 9 PLAY 2.0Vp-p (0.1msec. div.)	 IC3701- 7 PLAY IC3702- 7 PLAY 5.0Vp-p (20usec. div.)	 IC3706- 12 PLAY IC3707- 12,13,15 PLAY IC3708- 10 PLAY 5.0Vp-p (20usec. div.)	 IC3701- 9,15 PLAY IC3702- 9,10,15 PLAY IC3703- 9,15 PLAY 5.0Vp-p (5msec. div.)
 IC3706- 3 - 5, 9 - 11PLAY 5.0Vp-p (5msec. div.)	 IC3703- 7 PLAY IC3704- 1,2,13 PLAY IC3706- 6,8 PLAY 5.0Vp-p (5msec. div.)	 IC3705- 10 PLAY 5.0Vp-p (5msec. div.)	 IC3706- 1 PLAY IC3707- 6 PLAY 5.0Vp-p (5msec. div.)	 IC3706- 2 PLAY IC3707- 2,5 PLAY 5.0Vp-p (5msec. div.)
 IC3706- 13 PLAY IC3707- 4,11 PLAY IC3708- 9 PLAY 5.0Vp-p (20usec. div.)	 IC3707- 1 PLAY IC3708- 7 PLAY 5.0Vp-p (5msec. div.)	 IC3708- 14 PLAY 4.0Vp-p (50usec. div.)	 Q3752- E PLAY 1.7Vp-p (20usec. div.) Q3752- B PLAY 150mVp-p (20usec. div.)	

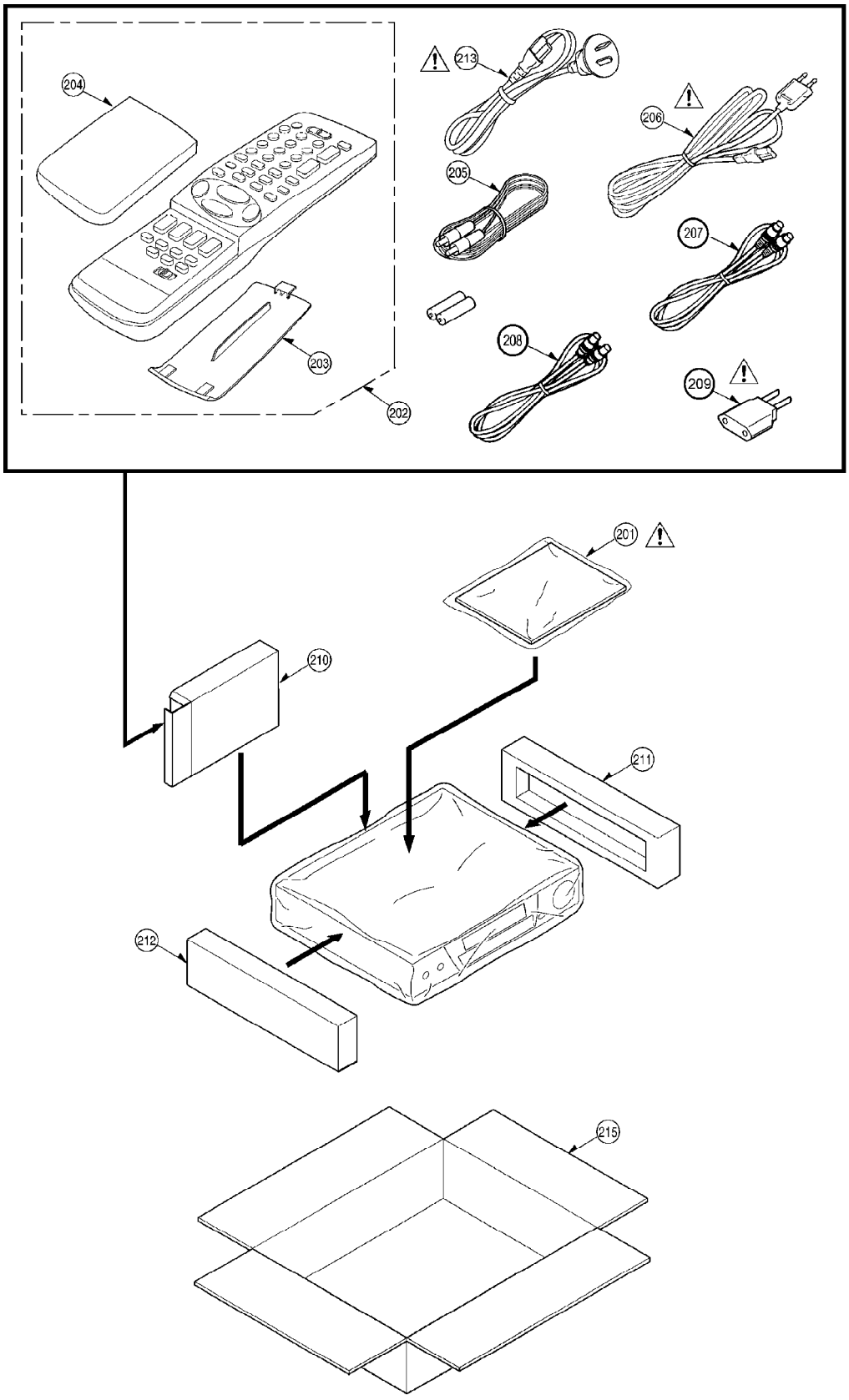
IC3301- 20 PLAY 3.5Vp-p (10msec. div.)	IC3301- 36 PLAY/ REC 3.5Vp-p (10usec. div.)	IC3301- 37 PLAY/ REC 3.5Vp-p (2msec. div.)	 IC3301- 85 PLAY IC3001- 74 REC 0.8Vp-p (20usec. div.)	 IC3001- 18,28,30 REC 1.0Vp-p (20usec. div.) IC3001- 56 REC 1.5Vp-p (20usec. div.)
 IC3301- 2 REC 1.5Vp-p (20usec. div.)	IC3001- 76 REC 0.32Vp-p (0.5msec. div.)	IC3001- 83,84,88,89 REC 1.2Vp-p (0.5msec. div.) IC3301- 76 REC 0.9Vp-p (0.5msec. div.)	IC3301- 78 REC 0.8Vp-p (5msec. div.)	 IC7701- 19 PLAY 1.2Vp-p (20usec. div.) IC7701- 21 PLAY 0.6Vp-p (20usec. div.)
 IC7701- 137 PLAY 0.6Vp-p (5usec. div.)	IC7701- 24 PLAY 7.0Vp-p (10msec. div.)	IC7701- 54 PLAY 5.5Vp-p (10msec. div.)	 IC7701- 55 PLAY 5.0Vp-p (5msec. div.)	IC7701- 56 PLAY 5.0Vp-p (5msec. div.)
 IC7704- 3,16 PLAY 1.0Vp-p (20usec. div.)	IC7708- 11 - 15 PLAY IC7706- 2 PLAY 5.0Vp-p (0.2msec. div.)	 IC7706- 7 PLAY 180mVp-p (50usec. div.)	IC7706- 9 PLAY 0.7Vp-p (20usec. div.) IC7704- 5 PLAY 0.6Vp-p (20usec. div.)	IC7704- 8 PLAY 225mVp-p (20usec. div.) IC7704- 11 PLAY 0.8Vp-p (20usec. div.)
IC7706- 10 PLAY 0.6Vp-p (30usec. div.)	IC7706- 15 PLAY 300mVp-p (0.2msec. div.)	 Q1200- 2 STOP 350mVp-p (5usec. div.)	Q1200- 3 STOP IC1150- 6 STOP 3.7Vp-p (5usec. div.)	Q1200- 4 STOP 4.0Vp-p (5usec. div.)
IC1150- 1 STOP 450Vp-p (5usec. div.)	IC1150- 2 STOP 8.0Vp-p (5usec. div.)	IC1150- 5 STOP 0.85Vp-p (10usec. div.) IC1150- 7 STOP 0.5Vp-p (5usec. div.)	 IC1200- C STOP 400mVp-p (5usec. div.)	 IC551- 7 REC 3.5Vp-p (20usec. div.) IC551- 13 REC 200mVp-p (20usec. div.)



11.2. CASING PARTS SECTION



11.3. PACKING PARTS SECTION



12. REPLACEMENT PARTS LIST

12.1. MECHANICAL REPLACEMENT PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

12.1.1. CHASSIS PARTS LIST

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
1 (1)	VEG1548	CYLINDER UNIT	1	
2 (1)	VXP2050	UPPER CYLINDER UNIT	1	
3 (1)	VSC4474	CYLINDER SHIELD PLATE	1	
4 (1)	VXS0244	EARTH PLATE	1	
10 (1)	VEK9069	CAPSTAN UNIT	1	
11 (1)	L1AZ00000004	FE HEAD	1	
12 (1)	VDB1431	TENSION ARM BOSS	1	
13 (1)	VDB1460	SUPPLY BRAKE ARM BOSS	1	
14 (1)	VDG1220KIT	MAIN CAM GEAR	1	
15 (1)	VDG1221	CONVERSION GEAR	1	
16 (1)	VDR0350	SUPPLY/TAKE-UP REEL TABLE	2	
18 (1)	VDV0382	CAPSTAN BELT	1	
19 (1)	VED0412	A/C HEAD UNIT	1	
20 (1)	VMX2656	P4 CAP	1	
21 (1)	VDG1217	WORM GEAR	1	
22 (1)	VDG1218	WORM WHEEL GEAR	1	
23 (1)	VDG1219	CENTRE GEAR	1	
24 (1)	VEM0604	LOADING MOTOR UNIT	1	
25 (1)	VMD2619	MOTOR BRACKET	1	
26 (1)	VMB3045	CONVERESION GEAR SPRING	1	
27 (1)	VMD2620	OPENER PIECE	1	
28 (1)	VMD2738	LED PRISM	1	
29 (1)	VML3165	DRIVE RACK ARM	1	
30 (1)	VML3166	MAIN LEVER	1	
31 (1)	VML3167	DRIVE MAIN LEVER ARM	1	
32 (1)	VML3172	SUPPLY SPRING ARM	1	
33 (1)	VML3176	CONVERSION LEVER A	1	
34 (1)	VML3177	CONVERSION LEVER B	1	
35 (1)	VXA6226	INCLINED BASE (S) UNIT	1	
36 (1)	VXP1895	ROLLER POST (S)	1	
37 (1)	VXA5854	INCLINED BASE (T) UNIT	1	
38 (1)	VXP1891	ROLLER POST (T)	1	
39 (1)	VMA9672	SUPPORT ANGLE	1	
41 (1)	VXL2667	TAKE UP BRAKE ARM UNIT	1	
43 (1)	VXL2670	TAKE UP LOADING ARM UNIT	1	
44 (1)	VXL2798	TESION ARM UNIT	1	
45 (1)	VXL2672	SUPPLY LOADING	1	
46 (1)	VXL2785	PINCH ARM UNIT	1	
47 (1)	VXL2996	P5 ARM UNIT	1	
48 (1)	VXL2792	IDLER ARM UNIT	1	
49 (1)	VXL2733	SUPPLY BRAKE ARM UNIT	1	
50 (1)	VXL2747	LOADING RACK UNIT	1	
51 (1)	VXP2053	CENTRE CLUTHCH UNIT	1	
53 (1)	VXL2783	REV ARM UNIT	1	
54 (1)	VML3276	IDLER POSITIONING ARM	1	
60 (1)	VMA9516	TOP PLATE	1	
61 (1)	VMB3047	CONNECTION SPRING	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
62 (1)	VMD3379	SIDE PLATE (L)	1	
63 (1)	VXA6607	SIDE PLATE (R) UNIT	1	
64 (1)	VXA5746	CASSETTE HOLDER UNIT	1	
65 (1)	VXP1730	MAIN SHAFT UNIT	1	
70 (1)	VDP1668-K	CLEANER ROLLER	1	
71 (1)	VML3164	CLEANER ARM	1	
72 (1)	VMD2858	S-VHS SW ACTUATER	1	
B1 (1)	VHD1117	SCREW	2	
B2 (1)	XYNV0029	SCREW	2	
B3 (1)	XTV26+6FFZJ	SCREW	1	
B6 (1)	VHD1066	SCREW	2	
B7 (1)	VHD1044	SCREW	1	
B8 (1)	VHD1060	SCREW	1	
B9 (1)	VHD1071	SCREW	1	
B11 (1)	XTS26+6F	SCREW	1	
B12 (1)	XTN26+6F	SCREW	1	
B13 (1)	XTN26+7J	SCREW	3	
B14 (1)	VHD1095	SCREW	1	
B15 (1)	VHD1185	SCREW	1	
N1 (1)	VHN0311	PUSH NUT	1	
W1 (1)	VMX2208	WASHER	1	
W2 (1)	VMX3022	WASHER	2	
W3 (1)	VMX2699	WASHER	1	

12.1.2. CASING PARTS SECTION

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
101 (2)	VGM1641	TOP PANEL	1	
102 (2)	VYP7903	FRONT PANEL UNIT	1	
103 (2)	RKA0072	FOOT	2	
104 (2)	VKA0191	LEG	1	
105 (2)	VKF3011	BLINDER PANEL	1	
106 (2)	VMB2521	BLINDER SPRING	1	
107 (2)	VKF3266	DOOR	1	
108 (2)	VMC1480	JACK ERATH SPRING	1	
110 (2)	VGU8373	JOG DIAL	1	
111 (2)	VGQ5611	SHUTTLE RING	1	
112 (2)	VMP6612	EARTH PLATE (A)	1	
115 (2)	VKU0519	BOTTOM PLATE	1	
116 (2)	VMC1065	EARTH SPRING	1	
117 (2)	VMP6625	HEAD AMP ANGLE	1	
118 (2)	VMC1572	EARTH SPRING	1	
120 (2)	VJH1158	JACK PLATE	1	
121 (2)	VEE0M66	WIRE CABLE	1	P3901-P3905
122 (2)	VEE0M96	WIRE CABLE	1	P2502-CYLINDER
123 (2)	VWJ0617	FLAT CARD CABLE (6P)	1	P4001-A/C HEAD
124 (2)	VMZ3094	SHIELD BARRIER	1	
125 (2)	VMZ2852	BARRIER	1	
126 (2)	VMZ3133	BARRIER	1	

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
B101 (2)	XTW3+10TFC	SCREW	4	
B102 (2)	VHD0168	SCREW	2	
B103 (2)	VHD0773	SCREW	2	
B104 (2)	VHD1065	SCREW	3	
B105 (2)	XTV26+6FR	SCREW	1	
B106 (2)	XTV26+8FR	SCREW	3	
B107 (2)	XTV3+8GFZ	SCREW	3	

12.1.3. PACKING PARTS SECTION

Ref. No.	Part No.	Part Name& Description	Pcs	Remarks
201 (3)	VQT8889	OPERATING INSTRUCTIONS (ENGLISH, ARABIC)	1	⚠
202 (3)	EUR571765	REMOTE CONTROLLER	1	
203 (3)	UR57EC679	BATTERY COVER	1	
204 (3)	UR57CV680	DOOR PANEL	1	
205 (3)	VJA1124	DIN RF CABLE	1	
206 (3)	VJA1023	AC CORD	1	⚠
207 (3)	VJA1120	S-VIDEO CABLE	1	
208 (3)	VJA0787	EDIT CABLE	1	
209 (3)	VJP2974	AC PLUG ADAPTOR	1	⚠
210 (3)	VPK0825	ACCESSORIES PACKING	1	
211 (3)	VPN5454	CUSHION (R)	1	
212 (3)	VPN4751	CUSHION (L)	1	
213 (3)	VJA0754	AC CORD (FOR AUSTRALIA)	1	⚠
215 (3)	VPG0F81	PACKING CASE	1	
		SERVICE FIXTURES& TOOLS		
	VFJ8125H3F	VHS ALIGNMENT TAPE (PAL)	1	
	VFK0335	RETAINING RING REMOVER (3mm/4mm)	1	
	VFK0329	POST ADJUSTMENT SCREWDRIVER	1	
	VFK0326	HEX WRENCH SET	1	
	VFK0132	BACK TENSION METER	1	
	VFK27	HEAD CLEANING STICK	1	
	VFK1024	MOLYTONE GREASE	1	
	VFK0330	FINE ADJUSTMENT GEAR DRIVER	1	
	VFK2744	16P EXTENSION CABLE	1	MAIN-POWER
	VFK1301	SILICONE GREASE	1	
	VFK1567	15P EXTENSION CABLE	4	PP7703-PS7703,PP7702-PS7702, / PP7701-PS7701,PP3904-PS3904
	VFK1568	EXTENSION CABLE 13P	1	PP3905-PS3905
	VFK1555	EXTENSION CABLE 8P	1	PP3903-PS3903
	VFK1564	EXTENSION CABLE 10P	1	PP3902-PS3902
	VFK1569	EXTENSION CABLE 5P	1	PP3901-PS3901
	VFK1635	EXTENSION CABLE 3P	2	PP3751-PS3751,PP3502-PS3502
	VFK1634	EXTENSION CABLE 7P	2	PP3501-PS3501,PP3503-PS3503

12.2. ELECTRICAL REPLACEMENT PARTS LIST

Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE: Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS (uf), P=uuF.
4. The P.C. Board units marked width "■" show below the main assembled parts.
5. The marking (RTL) indicaters the retention time is limited for this item.
After the discontinuation of this assembly in production, it will no longer be available.

Ref. No.	Part No.	Part Name& Description	Remarks
■	VEP06D77C	MAIN C.B.A.	(RTL) INCLUDING THE
			NICAM DECODER PACK C.B.A.(VEP07A18J),
			TV DEMODULATOR PACK C.B.A.(VEP07A23A).
■	VEP07A18J	NICAM DECODER PACK C.B.A.	(RTL) INCLUDED IN MAIN C.B.A.(VEP06D77C).
■	VEP07A23A	TV DEMODULATOR PACK C.B.A	(RTL) INCLUDED IN MAIN C.B.A.(VEP06D77C).
■	VEP03F50A	INPUT/OUTPUT C.B.A	(RTL)
■	VEP05392A	HEAD AMP C.B.A.	(RTL)
■	VEP04762C	AV FRONT C.B.A.	(RTL)
■	VEP06D78A	FRONT SWITCH C.B.A.	(RTL)
■	VEP07A30C	OSD C.B.A.	(RTL)
■	VEP03F51B	SECAM/T.B.C. C.B.A.	(RTL) INCLUDING THE FSC C.B.A.(VEP03F72A).
■	VEP03F72A	FSC C.B.A.	(RTL) INCLUDED IN SECAM/T.B.C. C.B.A.(VEP03F51B).
■	VEP01835B	POWER C.B.A.	⚠(RTL)
■	----------	RT CONNECTION C.B.A.	INCLUDED IN CYLINDER UNIT (VEG1548).
■	----------	STATOR CONNECTION C.B.A.	INCLUDED IN CAPSTAN UNIT (VEK9069).
■	----------	CAPSTAN DRIVE C.B.A.	INCLUDED IN CAPSTAN UNIT (VEK9069).
■	VEP06D77C	MAIN C.B.A.	(RTL)
C0701	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	F1J1C105A063
C0702	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	
C0703	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	F1J1A1050002
C0704	ECUM1E333KBN	C.CAPACITOR CH 25V 0.033U	
C0706	ECEA1HKA010	E.CAPACITOR 50V 1U	
C0707	ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	
C0708	ECEA1HKAR47	E.CAPACITOR 50V 0.47U	
C0710	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	
C0711	ECEA1CKA220	E.CAPACITOR 16V 22U	
C0712	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C0713	EEUFA1A391	E.CAPACITOR 10V 390U	
C0714	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	F1J1C105A063
C0715	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	
C0716	ECUX1H123KBV	C.CAPACITOR CH 50V 0.012U	
C0717	ECUM1H330GUV	C.CAPACITOR CH 50V 33P	
C0719	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	F1H1E104A026
C0721	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	
C0724	ECUX1H221KBV	C.CAPACITOR CH 50V 220P	
C1001	ECEA1AKG220	E.CAPACITOR 10V 22U	

Ref. No.	Part No.	Part Name& Description	Remarks
C1002	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C1003	ECEA1EGE101	E.CAPACITOR 25V 100U	
C1005	ECEA1AKA220	E.CAPACITOR 10V 22U	
C1006	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C1009	ECEA1EGE101	E.CAPACITOR 25V 100U	
C1014	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C1015	ECEA0JKA220	E.CAPACITOR 6.3V 22U	
C1016	ECEA1CKS100	E.CAPACITOR 16V 10U	
C1051	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C1052	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C1053	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C1054	ECEA1CKA220	E.CAPACITOR 16V 22U	
C1055	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C1056	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C1057	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C1059	ECA1CM101	E.CAPACITOR 16V 100U	
C1060	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	
C1061	ECA1CAK470X	E.CAPACITOR 16V 47U	
C1062	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C1063	ECEA1CGE470	E.CAPACITOR 16V 47U	
C1064	ECEA1HKA4R7	E.CAPACITOR 50V 4.7U	
C1065	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C1080	ECEA1AKA101	E.CAPACITOR 10V 100U	
C1081	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C1082	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C1083	ECEA1AKA220	E.CAPACITOR 10V 22U	
C1084	ECEA0JKS101	E.CAPACITOR 6.3V 100U	
C1085	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C1086	ECEA0JKA470	E.CAPACITOR 6.3V 47U	
C1087	ECEA0JKS101	E.CAPACITOR 6.3V 100U	
C1501	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	
C1502	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	
C2501	ECEA1VKN4R7	E.CAPACITOR 35V 4.7U	
C2502	ECEA1VKN4R7	E.CAPACITOR 35V 4.7U	
C2506	ECEA1HKNR47	E.CAPACITOR 50V 0.47U	
C2507	ECUM1H563ZFN	C.CAPACITOR CH 50V 0.056U	
C2508	ECUM1H563ZFN	C.CAPACITOR CH 50V 0.056U	
C2509	ECUM1H563ZFN	C.CAPACITOR CH 50V 0.056U	
C2510	ECUM1H563ZFN	C.CAPACITOR CH 50V 0.056U	
C2511	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C2512	ECEA0JKA221	E.CAPACITOR 6.3V 220U	
C2513	ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	
C2514	ECEA1CKS100	E.CAPACITOR 16V 10U	
C2516	ECA1EHG470	E.CAPACITOR 25V 47U	
C2517	ECEA0JKS470	E.CAPACITOR 6.3V 47U	
C2519	ECUM1H104KBN	C.CAPACITOR CH 50V 0.1U	
C2520	ECUX1H392KBN	C.CAPACITOR CH 50V 3900P	
C2521	ECA0JHG221	E.CAPACITOR 6.3V 220U	
C2522	ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	
C2523	ECUM1E683KBN	C.CAPACITOR CH 25V 0.068U	
C2524	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C2525	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C2526	ECEA1VKN4R7	E.CAPACITOR 35V 4.7U	
C2527	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	

Ref. No.	Part No.	Part Name& Description	Remarks
C2530	ECUX1H223KBN	C.CAPACITOR CH 50V 0.022U	
C2536	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3001	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C3005	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C3006	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C3007	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C3008	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C3009	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C3010	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C3011	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C3012	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C3013	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C3014	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C3015	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3016	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3017	ECEA1CKA100	E.CAPACITOR 16V 10U	
C3018	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3019	ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	
C3020	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3021	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3022	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3023	ECEA1CKA100	E.CAPACITOR 16V 10U	
C3024	ECEA1CKA100	E.CAPACITOR 16V 10U	
C3025	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C3026	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C3027	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3028	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3029	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3030	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3031	ECEA0JKS101	E.CAPACITOR 6.3V 100U	
C3032	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C3033	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3034	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C3035	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	F1J1C224A090
C3036	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C3037	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	
C3038	ECEA0JKS101	E.CAPACITOR 6.3V 100U	
C3039	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3043	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	
C3047	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	
C3049	ECEA1CKA101	E.CAPACITOR 16V 100U	
C3050	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C3051	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3052	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3053	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3054	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3055	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3056	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C3057	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3058	ECEA1CKA100	E.CAPACITOR 16V 10U	
C3059	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	
C3060	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3061	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	F1J1C105A063
C3062	ECUX1H122KBN	C.CAPACITOR CH 50V 1200P	

Ref. No.	Part No.	Part Name& Description	Remarks
C3063	ECEA1HKAR47	E.CAPACITOR 50V 0.47U	
C3064	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	
C3065	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	
C3066	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3067	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3069	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3071	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	
C3072	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	
C3073	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	
C3074	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3201	ECEA1CKA100	E.CAPACITOR 16V 10U	
C3202	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3203	ECEA1CKA100	E.CAPACITOR 16V 10U	
C3204	ECEA0JKA470	E.CAPACITOR 6.3V 47U	
C3205	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3206	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	
C3207	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3208	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3209	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	
C3301	ECEA0JKA470	E.CAPACITOR 6.3V 47U	
C3302	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C3303	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3304	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C3305	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C3306	ECEA0JKA470	E.CAPACITOR 6.3V 47U	
C3307	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C3308	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	F1J1C105A063
C3309	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3310	ECEA0JKA470	E.CAPACITOR 6.3V 47U	
C3311	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C3312	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C3313	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3314	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3315	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C3316	ECEA0JKA470	E.CAPACITOR 6.3V 47U	
C3317	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C3318	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3319	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C3320	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	
C3322	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3324	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3325	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C3326	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3327	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C3328	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3329	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C3330	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	
C3331	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	
C3333	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C3334	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	
C3335	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C3337	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C4001	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	
C4002	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	

Ref. No.	Part No.	Part Name& Description	Remarks
C4003	ECQV1H154JM	P.CAPACITOR 50V 0.15U	
C4004	ECEA0JKA221	E.CAPACITOR 6.3V 220U	
C4005	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	
C4006	ECUX1H223KBN	C.CAPACITOR CH 50V 0.022U	
C4007	ECEA1AKA220	E.CAPACITOR 10V 22U	
C4009	ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	
C4010	ECUM1H682KBN	C.CAPACITOR CH 50V 6800P	
C4011	ECUM1C334ZFN	C.CAPACITOR CH 16V 0.33U	
C4012	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	
C4013	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C4015	ECUM1H682KBN	C.CAPACITOR CH 50V 6800P	
C4016	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	F1J1C105A063
C4017	ECUM1H122JN	C.CAPACITOR CH 50V 1200P	
C4018	ECUM1H272KBN	C.CAPACITOR CH 50V 2700P	
C4019	ECEA1HKA010	E.CAPACITOR 50V 1U	
C4020	ECEA0JKA220	E.CAPACITOR 6.3V 22U	
C4021	ECUM1H822KBN	C.CAPACITOR CH 50V 8200P	
C4022	ECUM1H222JX	C.CAPACITOR CH 50V 2200P	
C4023	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	F1J1C105A063
C4024	ECEA0JKA470	E.CAPACITOR 6.3V 47U	
C4025	ECUM1C334ZFN	C.CAPACITOR CH 16V 0.33U	
C4026	ECEA0JKA220	E.CAPACITOR 6.3V 22U	
C4027	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C4028	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C4029	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	
C4101	ECUX1H223KBN	C.CAPACITOR CH 50V 0.022U	
C4102	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	
C4103	ECQB1H223JF	P.CAPACITOR 50V 0.022U	
C4104	ECEA0JKA470	E.CAPACITOR 6.3V 47U	
C4105	ECEA1AKA220	E.CAPACITOR 10V 22U	
C4501	ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	
C4502	ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	
C4503	ECEA1CKA100	E.CAPACITOR 16V 10U	
C4504	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C4505	ECEA1CKA100	E.CAPACITOR 16V 10U	
C4506	ECEA1CKA100	E.CAPACITOR 16V 10U	
C4507	ECEA1CKA100	E.CAPACITOR 16V 10U	
C4508	ECEA1CKA100	E.CAPACITOR 16V 10U	
C4509	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	
C4510	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	
C4511	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C4512	ECQB1H272JF	P.CAPACITOR 50V 2700P	
C4513	ECQB1H272JF	P.CAPACITOR 50V 2700P	
C4514	ECA1CAK470X	E.CAPACITOR 16V 47U	
C4515	ECA1CAK100X	E.CAPACITOR 16V 10U	
C4516	ECA1HAK2R2X	E.CAPACITOR 50V 2.2U	
C4517	ECA1CAK100X	E.CAPACITOR 16V 10U	
C4518	ECA1CAK470X	E.CAPACITOR 16V 47U	
C4519	ECEA1CKA100	E.CAPACITOR 16V 10U	
C4520	ECEA1HKAR22	E.CAPACITOR 50V 0.22U	
C4521	ECQV1H104JM	P.CAPACITOR 50V 0.1U	
C4522	ECA1CAK100X	E.CAPACITOR 16V 10U	
C4523	ECA1CAK100X	E.CAPACITOR 16V 10U	
C4524	ECA1CAK100X	E.CAPACITOR 16V 10U	

Ref. No.	Part No.	Part Name& Description	Remarks
C4525	ECA1CAK100X	E.CAPACITOR 16V 10U	
C4526	ECA1CAK100X	E.CAPACITOR 16V 10U	
C4527	ECA1HAKR22X	E.CAPACITOR 50V 0.22U	
C4528	ECA1HAKR22X	E.CAPACITOR 50V 0.22U	
C4529	ECA1HAKR22X	E.CAPACITOR 50V 0.22U	
C4530	ECA1HAKR22X	E.CAPACITOR 50V 0.22U	
C4531	ECA1HAKR22X	E.CAPACITOR 50V 0.22U	
C4532	ECA1HAKR22X	E.CAPACITOR 50V 0.22U	
C4533	ECA1HAKR22X	E.CAPACITOR 50V 0.22U	
C4534	ECA1HAKR22X	E.CAPACITOR 50V 0.22U	
C4535	ECEA1HKNR47	E.CAPACITOR 50V 0.47U	
C4536	ECEA1HKNR47	E.CAPACITOR 50V 0.47U	
C4537	ECA1CAK100X	E.CAPACITOR 16V 10U	
C4538	ECQV1H104JM	P.CAPACITOR 50V 0.1U	
C4539	ECA1CAK470X	E.CAPACITOR 16V 47U	
C4540	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C4541	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C4542	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C4543	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	
C4544	ECA1CAK100X	E.CAPACITOR 16V 10U	
C4545	ECA1HAK2R2X	E.CAPACITOR 50V 2.2U	
C4546	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C4547	ECA1CAK100X	E.CAPACITOR 16V 10U	
C4548	ECA1HAK2R2X	E.CAPACITOR 50V 2.2U	
C4549	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C4550	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C4551	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C4552	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C4553	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	
C4554	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	
C4555	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	
C4556	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	
C6001	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	F1J1C105A063
C6002	ECUM1H060DCN	C.CAPACITOR CH 50V 6P	
C6003	ECUM1H200JCN	C.CAPACITOR CH 50V 20P	
C6004	ECUX1H200JCV	C.CAPACITOR CH 50V 20P	
C6005	ECUM1H060DCN	C.CAPACITOR CH 50V 6P	
C6006	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C6007	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	
C6008	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C6009	ECUM1H681JCN	C.CAPACITOR CH 50V 680P	
C6010	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	
C6011	ECEA0JKS470	E.CAPACITOR 6.3V 47U	
C6012	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	
C6013	ECEA1CKA100	E.CAPACITOR 16V 10U	
C6016	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	
C6017	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C6018	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	
C6019	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C6020	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C6024	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	
C6025	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	
C6026	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C6701	ECEA0JKA470	E.CAPACITOR 6.3V 47U	

Ref. No.	Part No.	Part Name& Description	Remarks
C6702	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C6703	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	
C6704	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	
C7301	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	
C7302	VCEA0JAW101	E.CAPACITOR 6.3V 100U	
C7304	VCEA0JAW101	E.CAPACITOR 6.3V 100U	
C7305	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	
C7306	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	
C7307	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	
C7308	ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	
C7311	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
C7312	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C7313	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C7315	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C7316	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C7317	VCEA1CAW100	E.CAPACITOR 16V 10U	
C7318	VCEA0JAW470	E.CAPACITOR 6.3V 47U	
C7319	VCEA1CAW100	E.CAPACITOR 16V 10U	
C7320	VCEA1CAW100	E.CAPACITOR 16V 10U	
C7324	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C7325	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C7341	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	
C7342	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	
C7501	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C7502	ECEA1HKA100	E.CAPACITOR 50V 10U	
C7504	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C7506	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	
C7509	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C7510	ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	
C7513	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C7514	VCE0073	SUPER CAPACITOR	
C7515	ECEA0JKA221	E.CAPACITOR 6.3V 220U	
C7601	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C7602	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C7603	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	
C7604	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C7605	ECEA1HKA100	E.CAPACITOR 50V 10U	
C7606	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C7608	ECQV1H104JM	P.CAPACITOR 50V 0.1U	
C7609	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	
C7610	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	
C7611	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	
C7612	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C7613	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C7615	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	
C7617	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C7618	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C7619	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	
C7620	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	
C7621	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	
C7651	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	
C7653	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
D0702	MA77	DIODE	
D1003	1SS254	DIODE	

Ref. No.	Part No.	Part Name& Description	Remarks
D1004	MA4051H	DIODE	
D1007	MA4051-M	DIODE	MAZ40510MF
D1009	MA4051H	DIODE	
D1010	1SS254	DIODE	
D1013	MA723VT	DIODE	
D1015	1SS254	DIODE	
D1016	1SS254	DIODE	
D1017	1SS254	DIODE	
D1051	MA4051N-L	DIODE	
D1052	11ES1	DIODE	B0EAKL000030
D1053	11ES1	DIODE	B0EAKL000030
D1054	MA4120-H	DIODE	
D1055	1SS254	DIODE	
D1080	MA4033-M	DIODE	
D1081	1SS254	DIODE	
D1082	1SS254	DIODE	
D1501	SIR505S	DIODE	B3EA00000040
D2502	1SS254	DIODE	
D2504	1SS254	DIODE	
D2505	1SS254	DIODE	
D2506	MA700	DIODE	
D3301	MA151K	DIODE	MA3X151K
D4101	1SS254	DIODE	
D6002	MA700	DIODE	
D6701	MA700	DIODE	
D6702	MA151WK	DIODE	
D7521	MA4220	DIODE	
D7523	MA723VT	DIODE	
D7601	MA4300M	DIODE	
D7602	1SS254	DIODE	
D7603	1SS254	DIODE	
DP7501	VSL0533-B	FIP	A2BZ00000028
FL3301	ELKTT221AA	DIGITAL NOISE FILTER	
FL3302	ELKTT221AA	DIGITAL NOISE FILTER	
FL3303	ELKTT221AA	DIGITAL NOISE FILTER	
FL7301	VLF0633	FILTER	
IC0701	LA75503	IC	
IC1001	PQ20VB2E	IC	C0DAEKH00001
IC1051	UPC1093J	IC	
IC1080	UPC1093J	IC	
IC1081	PQ2TZ15U	IC	C0DBZFG00006
IC2501	NJM2904M	IC	
IC2502	AN3811NK	IC	
IC3001	AN3589FAS	IC	
IC3201	NJM2533M	IC	
IC3301	MN7FD02B5B	IC	
IC3302	M24C02HS960A	IC	C3EBDC000046
IC3303	M24C02HS960B	IC	C3EBDC000046
IC4501	TDA9615H	IC	C1AB00000957
IC4502	NJM4558M	IC	
IC4503	BA6138	IC	C1BA00000060
IC6001	M37777VFFU	IC	
IC6002	RPI354N	IC	B3EZ00000001
IC6003	RPI354N	IC	B3EZ00000001

Ref. No.	Part No.	Part Name& Description	Remarks
IC6004	S80743AL	IC	C0EAH0000066
IC6701	M24C16-WBN6	IC	C3EAGC000015
IC7301	TDA9874AH	IC	
IC7302	PST7043	IC	
IC7501	M35500AFP	IC	C0HBB0000015
IC7503	RN5VD28AA	IC	
IC7504	PNA4611M02VT	IC	
IP1001	UNH000300A	IC PROTECTOR	⚠
IP1003	UNH000300A	IC PROTECTOR	⚠
IP1051	UNH000300A	IC PROTECTOR	⚠
IP1052	UNH000300A	IC PROTECTOR	⚠
IP1054	UNH000300A	IC PROTECTOR	⚠
IP1080	UNH000300A	IC PROTECTOR	⚠
K0703	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K0707	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K0709	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K1006	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
K3007	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	
K3014	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	
K3015	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K4501	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
K4503	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	
K6702	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	
K7301	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
K7302	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
K7303	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
K7605	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	
K7609	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
L0701	ELJNAR18JF	CHIP INDUCTOR	
L0703	ELJNA2R2JF	CHIP INDUCTOR	
L2504	VLQ0599J221	COIL 220UH	
L3001	VLQ0599J680	COIL 68UH	
L3002	VLQ0599J680	COIL 68UH	
L3003	VLQ0599J680	COIL 68UH	
L3005	VLQ0599J220	COIL 22UH	
L3006	VLQ0599J680	COIL 68UH	
L3007	VLQ0599J680	COIL 68UH	
L3009	VLQ0599J390	COIL 39UH	G0C390JA0026
L3010	VLQ0599J1R2	COIL 1.2UH	G0C1R2JA0026
L3201	VLQ0599J680	COIL 68UH	
L3202	VLQ0599J330	COIL 33UH	
L4001	VLQ0599J680	COIL 68UH	
L4002	ELELN153JA	INDUCTOR 15000UH	
L4003	VLQ0599J680	COIL 68UH	
L4101	VLQ0599J680	COIL 68UH	
L4501	VLQ0599J100	COIL 10UH	
L7302	VLQ0599J1R0	COIL 1UH	
L7601	VLQ0599J330	COIL 33UH	
L7602	VLQ0599J330	COIL 33UH	
L7603	VLQ0599J330	COIL 33UH	
L7604	VLQ0599J330	COIL 33UH	
L7607	VLQ0599J2R2	COIL 2.2UH	
L7651	VLQ0599J100	COIL 10UH	

Ref. No.	Part No.	Part Name& Description	Remarks
LB3001	VLP0196	CHIP INDUCTOR	
LB3002	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
LB3003	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
LB3004	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
LB3005	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
LB3301	VLP0196	CHIP INDUCTOR	
LB3302	VLP0196	CHIP INDUCTOR	
LB3303	VLP0196	CHIP INDUCTOR	
LB3304	VLP0196	CHIP INDUCTOR	
LB3305	VLP0196	CHIP INDUCTOR	
LB3306	VLP0196	CHIP INDUCTOR	
LB3307	VLP0364	CHIP INDUCTOR	
LB3308	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
LB3309	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	
LB3310	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
LB3311	VLP0157	COIL	J0JCC0000107
LB3312	VLP0157	COIL	J0JCC0000107
LB3313	VLP0157	COIL	J0JCC0000107
LB3314	VLP0157	COIL	J0JCC0000107
LB3315	VLP0157	COIL	J0JCC0000107
LB7301	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
LB7303	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
LB7501	VLP0147	COIL	
P1001	VJS3917A016W	CONNECTOR (FEMALE) 16P	K1KB16A00050
P1501	VJS3837A002	CONNECTOR (FEMALE) 2P	K1KB02A00035
P2501	VJP3835A012	CONNECTOR (MALE) 12P	
P2502	VJP1236T	CONNECTOR (MALE) 9P	K1KA09A00023
P3001	VJS3932A008W	CONNECTOR (FEMALE) 8P	K1KB08A00043
P3002	VJS3932A008W	CONNECTOR (FEMALE) 8P	K1KB08A00043
P3901	VJP1141	CONNECTOR (MALE) 2P	K1KA02A00212
P4001	VJS3537A006G	CONNECTOR (FEMALE) 6P	K1MN06A00034
P4101	VJS3837A002	CONNECTOR (FEMALE) 2P	K1KB02A00035
P7501	VJP3630A012G	CONNECTOR (MALE) 12P	
P7502	VJP3630A018G	CONNECTOR (MALE) 18P	
PK0701	VJR0826E009W	CONNECTOR (MALE) 9P	K1MR09A00028
PK7301	VJR0777B007W	CONNECTOR (MALE) 7P	K1MM07B00002
PK7302	VJR0777B006W	CONNECTOR (MALE) 6P	K1MM06B00002
PP0701	VJP3589A004B	CONNECTOR (MALE) 4P	
PP3501	VJP3043A007W	CONNECTOR (MALE) 7P	
PP3502	VJP3043A003W	CONNECTOR (MALE) 3P	
PP3503	VJP3043A007W	CONNECTOR (MALE) 7P	
PP3901	VJP3042A005W	CONNECTOR (MALE) 5P	
PP3902	VJP3042A010W	CONNECTOR (MALE) 10P	
PP3903	VJP3042A008W	CONNECTOR (MALE) 8P	
PP3904	VJP3042A015W	CONNECTOR (MALE) 15P	
PP3905	VJP3042A013W	CONNECTOR (MALE) 13P	
PP7701	VJP3042A015W	CONNECTOR (MALE) 15P	
PP7702	VJP3042A015W	CONNECTOR (MALE) 15P	
PP7703	VJP3042A015W	CONNECTOR (MALE) 15P	
Q0702	2SD601A-S	TRANSISTOR	
Q1001	2SD601A	TRANSISTOR	
Q1002	2SD602A	TRANSISTOR	
Q1003	2SD1996-S	TRANSISTOR	
Q1006	2SD1996-S	TRANSISTOR	

Ref. No.	Part No.	Part Name& Description	Remarks
Q1007	2SD602A-R	TRANSISTOR	
Q1010	2SD1996-S	TRANSISTOR	
Q1051	2SD1996-S	TRANSISTOR	
Q1052	2SD1996-S	TRANSISTOR	
Q1055	2SB710A	TRANSISTOR	
Q1056	2SD601A	TRANSISTOR	
Q1057	2SD1996-S	TRANSISTOR	
Q1058	2SC3940A	TRANSISTOR	
Q1080	2SD1996-S	TRANSISTOR	
Q1081	2SB710A	TRANSISTOR	
Q1082	2SD2139	TRANSISTOR	
Q1504	PNB2301MBV	TRANSISTOR	
Q1505	PNB2301MAV	TRANSISTOR	
Q3001	2SB709A	TRANSISTOR	
Q3201	2SB709A	TRANSISTOR	
Q3301	2SA1022	TRANSISTOR	
Q3302	2SB709A	TRANSISTOR	
Q3303	2SB709A	TRANSISTOR	
Q3304	2SB709A	TRANSISTOR	
Q3305	2SD601A	TRANSISTOR	
Q4001	2SB710A-R	TRANSISTOR	
Q4002	2SD602A-R	TRANSISTOR	
Q4003	2SD1149	TRANSISTOR	
Q4004	2SD601A	TRANSISTOR	
Q4101	2SD602A-R	TRANSISTOR	
Q4102	2SB710A-R	TRANSISTOR	
Q7601	2SD601A	TRANSISTOR	
Q7651	2SB709A	TRANSISTOR	
Q7652	2SD1328-S	TRANSISTOR	
Q7653	2SD1328-S	TRANSISTOR	
QR1001	MUN2112	TRANSISTOR	
QR1005	MUN2213	TRANSISTOR	
QR1051	MUN2213	TRANSISTOR	
QR1052	MUN2211	TRANSISTOR	
QR1080	MUN2212	TRANSISTOR	
QR1081	MUN2211	TRANSISTOR	
QR2504	UN2211	TRANSISTOR	
QR2505	MUN2212	TRANSISTOR	
QR3001	MUN2212	TRANSISTOR	
QR3002	UN221L	TRANSISTOR	
QR3003	DTC363EK	DIGITAL TRANSISTOR	
QR3201	XN4212	TRANSISTOR-TRANSISTOR	
QR3301	MUN2213	TRANSISTOR	
QR3302	UN2210	TRANSISTOR	
QR3303	UN2210	TRANSISTOR	
QR3305	XN4312	TRANSISTOR-TRANSISTOR	
QR3307	XN4312	TRANSISTOR-TRANSISTOR	
QR3309	MUN2113	TRANSISTOR	
QR3310	UN2213	TRANSISTOR-RESISTOR	
QR4001	UN2215	TRANSISTOR-RESISTOR	
QR4002	UN2215	TRANSISTOR-RESISTOR	
QR4003	MUN2212	TRANSISTOR	
QR4004	XN4212	TRANSISTOR-TRANSISTOR	
QR4007	MUN2211	TRANSISTOR	

Ref. No.	Part No.	Part Name& Description	Remarks
QR4008	MUN2111	TRANSISTOR	
QR4009	MUN2212	TRANSISTOR	
QR4101	MUN2212	TRANSISTOR	
QR4501	UN2116	TRANSISTOR	
QR4502	UN2116	TRANSISTOR	
QR4503	UN2215	TRANSISTOR-RESISTOR	
QR4504	UN2215	TRANSISTOR-RESISTOR	
QR4505	UN2215	TRANSISTOR-RESISTOR	
QR4506	MUN2113	TRANSISTOR	
QR4507	UN2215	TRANSISTOR-RESISTOR	
QR6001	MUN2111	TRANSISTOR	
QR6002	MUN2211	TRANSISTOR	
QR6003	MUN2212	TRANSISTOR	
QR6701	MUN2212	TRANSISTOR	
QR6702	MUN2211	TRANSISTOR	
QR7501	UN211F	TRANSISTOR-RESISTOR	
QR7601	MUN2211	TRANSISTOR	
R0705	ERJ3GEYJ362	M.RESISTOR CH 1/16W 3.6K	
R0707	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	
R0708	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	
R0711	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	
R0713	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R0715	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R0717	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	
R0719	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	
R0725	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R0726	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	
R0727	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R0729	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	
R0730	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R0740	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	
R0741	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	
R0742	ERJ8GEYJ151	M.RESISTOR CH 1/8W 150	
R0745	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	
R1001	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	
R1002	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	
R1003	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	
R1004	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	
R1005	ERDS2TJ222	C.RESISTOR 1/4W 2.2K	
R1011	ERJ6GMYG823	M.RESISTOR CH 1/10W 82K	
R1012	ERDS2TJ472	C.RESISTOR 1/4W 4.7K	
R1013	ERJ6GMYG153	M.RESISTOR CH 1/10W 15K	
R1014	ERJ6GMYG163	M.RESISTOR CH 1/10W 16K	
R1015	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	
R1016	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	
R1020	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R1021	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R1022	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R1023	ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	
R1024	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R1025	ERDS2TJ222	C.RESISTOR 1/4W 2.2K	
R1026	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	
R1051	ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	
R1052	ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	

Ref. No.	Part No.	Part Name& Description	Remarks
R1053	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	
R1054	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R1055	ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	
R1056	ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	
R1057	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R1058	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	
R1059	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R1060	ERJ6GMYG622	M.RESISTOR CH 1/10W 6.2K	
R1061	ERJ6GMYG562	M.RESISTOR CH 1/10W 5.6K	
R1062	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R1063	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	
R1064	ERDS2TJ822	C.RESISTOR 1/4W 8.2K	
R1065	ERDS2TJ822	C.RESISTOR 1/4W 8.2K	
R1066	ERDS2TJ682	C.RESISTOR 1/4W 6.8K	
R1080	ERJ6GMYG392	M.RESISTOR CH 1/10W 3.9K	
R1081	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R1082	ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	
R1083	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	
R1084	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	
R1085	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	
R1086	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R1087	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	
R1501	ERDS2TJ121	C.RESISTOR 1/4W 120	
R1502	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	
R1503	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R2501	ERDS1TJ1R2	C.RESISTOR 1/2W 1.2	
R2502	ERDS2TJ330	C.RESISTOR 1/4W 33	
R2503	ERDS2TJ330	C.RESISTOR 1/4W 33	
R2504	ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	
R2505	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	
R2506	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	
R2507	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	
R2508	ERDS1TJ1R5	C.RESISTOR 1/2W 1.5	
R2509	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	
R2510	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R2511	ERJ6GMYG433	M.RESISTOR CH 1/10W 43K	
R2513	ERJ6GMYJ274	M.RESISTOR CH 1/10W 270	
R2514	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R2515	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R2516	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R2517	ERDS2TJ330	C.RESISTOR 1/4W 33	
R2518	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R2532	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	
R3001	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	
R3002	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	
R3003	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	
R3005	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	
R3006	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R3007	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R3008	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	
R3010	ERJ6GMYJ301	M.RESISTOR CH 1/10W 300	
R3021	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	
R3025	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R3029	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	

Ref. No.	Part No.	Part Name& Description	Remarks
R3030	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	
R3033	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	
R3034	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	
R3035	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	
R3038	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	
R3039	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R3040	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	
R3041	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R3042	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R3043	ERJ6GMYJ680	M.RESISTOR CH 1/10W 68	
R3201	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R3202	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R3203	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	
R3204	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	
R3205	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R3206	ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	
R3207	ERJ6GMYJ302	M.RESISTOR CH 1/10W 3K	
R3208	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	
R3209	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R3312	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	
R3313	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R3314	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R3315	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R3316	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	
R3317	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	
R3318	ERJ6GMYJ622	M.RESISTOR CH 1/10W 6.2K	
R3319	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
R3320	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	
R3321	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	
R3322	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	
R3323	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	
R3324	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	
R3325	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	
R3326	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	
R3327	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	
R3328	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R3329	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	
R3330	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R3331	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R3332	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R3334	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	
R3335	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	
R3338	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	
R3339	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	
R3340	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	
R3341	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	
R3342	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	
R3343	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	
R3344	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	
R3345	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	
R3348	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	
R3349	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	
R3350	ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	
R3351	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	

Ref. No.	Part No.	Part Name& Description	Remarks
R3352	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	
R3353	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	
R3354	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	
R3355	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	
R3356	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R3359	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	
R4001	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	
R4002	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	
R4003	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	
R4004	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	
R4006	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	
R4007	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	
R4008	ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	
R4009	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	
R4010	ERJ6GMYJ241	M.RESISTOR CH 1/10W 240	
R4011	ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	
R4012	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	
R4013	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	
R4014	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	
R4015	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	
R4016	ERJ6GMYG153	M.RESISTOR CH 1/10W 15K	
R4017	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	
R4018	ERJ6GEYJ753	M.RESISTOR CH 1/10W 75K	
R4019	ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	
R4020	ERJ6GMYG241	M.RESISTOR CH 1/10W 240	
R4021	ERJ6GMYG334	M.RESISTOR CH 1/10W 330K	
R4022	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	
R4023	ERJ6GMYK225	M.RESISTOR CH 1/10W 2.2M	
R4024	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	
R4025	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	
R4026	ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	
R4101	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	
R4102	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	
R4103	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	
R4501	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R4502	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	
R4503	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	
R4504	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R4505	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	
R4506	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	
R4507	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	
R4508	ERJ6GMYJ823	M.RESISTOR CH 1/10W 82K	
R4509	ERJ6GMYJ823	M.RESISTOR CH 1/10W 82K	
R4510	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	
R4511	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	
R4512	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R4513	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	
R4514	ERJ6RBD393	M.RESISTOR CH 1/10W 39K	
R4515	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	
R4516	ERJ6GMYJ823	M.RESISTOR CH 1/10W 82K	
R4517	ERJ6GEYG823	M.RESISTOR CH 1/10W 82K	
R4518	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	
R4519	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	
R4520	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	

Ref. No.	Part No.	Part Name& Description	Remarks
R4521	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	
R4522	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	
R4523	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	
R4524	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	
R4525	ERJ6GMYK335	M.RESISTOR CH 1/10W 3.3M	
R4526	ERJ6GMYJ753	M.RESISTOR CH 1/10W 75K	
R4527	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R4528	ERJ6GMYJ753	M.RESISTOR CH 1/10W 75K	
R4529	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R4530	ERJ6GMYJ753	M.RESISTOR CH 1/10W 75K	
R4531	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R4532	ERJ6GMYJ753	M.RESISTOR CH 1/10W 75K	
R4533	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R4534	ERJ6GMYJ753	M.RESISTOR CH 1/10W 75K	
R4535	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R4536	ERJ6GMYJ753	M.RESISTOR CH 1/10W 75K	
R4537	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R4538	ERJ6GMYJ753	M.RESISTOR CH 1/10W 75K	
R4539	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R4540	ERJ6GMYJ753	M.RESISTOR CH 1/10W 75K	
R4541	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R4542	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	
R4543	ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	
R4544	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R4545	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	
R4546	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	
R4547	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	
R4548	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	
R4549	ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	
R4550	ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	
R4551	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	
R4552	ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	
R4553	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	
R4554	ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	
R4555	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R6001	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	
R6002	ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	
R6003	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R6004	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	
R6005	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R6006	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R6007	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	
R6008	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	
R6009	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	
R6010	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	
R6012	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	
R6013	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	
R6014	ERDS2TJ181	C.RESISTOR 1/4W 180	
R6015	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	
R6016	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	
R6017	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	
R6018	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	
R6019	ERJ3GEYJ106	M.RESISTOR CH 1/16W 10M	
R6020	ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	

Ref. No.	Part No.	Part Name& Description	Remarks
R6021	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	
R6022	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R6023	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R6024	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R6025	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	
R6027	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R6028	ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	
R6029	ERJ6GEYJ433	M.RESISTOR CH 1/10W 43K	
R6031	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	
R6032	ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	
R6033	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	
R6034	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R6035	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R6036	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	
R6037	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	
R6038	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	
R6063	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	
R6701	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R6702	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	
R6703	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	
R6704	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	
R6705	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	
R7302	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R7305	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7306	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7316	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	
R7324	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	
R7325	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R7327	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	
R7328	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	
R7329	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	
R7501	ERDS2TJ180	C.RESISTOR 1/4W 18	
R7502	ERJ6GMYJ202	M.RESISTOR CH 1/10W 2K	
R7503	ERJ6GMYJ202	M.RESISTOR CH 1/10W 2K	
R7504	ERDS2TJ180	C.RESISTOR 1/4W 18	
R7506	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	
R7507	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	
R7508	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	
R7512	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	
R7517	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	
R7520	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R7521	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R7523	ERJ6GMYJ303	M.RESISTOR CH 1/10W 30K	
R7524	ERJ6GMYJ303	M.RESISTOR CH 1/10W 30K	
R7525	ERJ6GMYJ303	M.RESISTOR CH 1/10W 30K	
R7527	ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	
R7528	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R7533	ERJ6GMYJ303	M.RESISTOR CH 1/10W 30K	
R7601	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	
R7602	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	
R7603	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	
R7605	ERDS2TJ331	C.RESISTOR 1/4W 330	
R7606	ERDS2TJ331	C.RESISTOR 1/4W 330	
R7608	ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	

Ref. No.	Part No.	Part Name& Description	Remarks
R7609	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	
R7610	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	
R7612	ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	
R7613	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	
R7614	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	
R7651	ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	
R7652	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	
R7653	ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	
R7654	ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	
S1501	VSS0565	MODE SWITCH	K0ZZ00000452
S1502	VST0325	CASSETTE DET. SWITCH	K0L1BA000026
S6001	VES0834	S-TAB SWITCH	K0J1BB000004
T0701	EQV5EC082P	TRANSFORMER	
T4001	EQQ7QF026P	TRANSFORMER	
T4101	EQQ7QF025P	TRANSFORMER	
TH1051	VRT0162M220	THERMISTOR	
TU7601	ENG47307G1	TUNER	⚠
VR0701	EVNCBAA00B14	V.RESISTOR	
VR3002	EVMEASA00B53	V.RESISTOR 5K	
VR3004	EVMEASA00B53	V.RESISTOR 5K	
X0701	VLF1416	FILTER	J0B4045A0002
X0704	VLF1493	FILTER	
X3001	H0D710400001	CRYSTAL OSCILLATOR	
X6001	VSX0830	CRYSTAL OSCILLATOR	
X6002	VSX0660	CRYSTAL OSCILLATOR	
X7302	VSX0953	CRYSTAL OSCILLATOR	H0D245500006
	VSC5164	HEAD AMP SHIELD	
	VXQ0648	FIP HOLDER	
	VSC4752	NICAM SHIELD CASE (MAIN)	
	VMP5897	TV DEMODU. CONNECTION ANGLE	
■	VEP03F50A	INPUT/OUTPUT C.B.A	(RTL)
C3903	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C3904	ECEA1HKS010	E.CAPACITOR 50V 1U	
C3905	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	
C3906	ECEA1HKN010	E.CAPACITOR 50V 1U	
C3908	ECEA1HKA010	E.CAPACITOR 50V 1U	
C3909	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C3910	ECEA1HKA010	E.CAPACITOR 50V 1U	
C3911	ECEA0JKS331	E.CAPACITOR 6.3V 330U	
C3912	ECEA1CKS100	E.CAPACITOR 16V 10U	
C3913	ECEA0JKA331	E.CAPACITOR 6.3V 330U	
C3914	ECEA1CKA100	E.CAPACITOR 16V 10U	
C3915	ECEA0JKS470	E.CAPACITOR 6.3V 47U	
C3916	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3917	ECEA1CKA470	E.CAPACITOR 16V 47U	
C3918	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3919	ECEA1CKA470	E.CAPACITOR 16V 47U	
C3920	ECEA1CKA470	E.CAPACITOR 16V 47U	
C3921	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3922	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3923	ECEA0JKA331	E.CAPACITOR 6.3V 330U	
C3924	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	

Ref. No.	Part No.	Part Name& Description	Remarks
C3925	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3928	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3929	ECEA0JKA331	E.CAPACITOR 6.3V 330U	
C3930	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3931	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3932	ECEA1CKS100	E.CAPACITOR 16V 10U	
C3933	ECEA1CKS100	E.CAPACITOR 16V 10U	
C3934	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	
C3935	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	
C3936	ECEA0JKA331	E.CAPACITOR 6.3V 330U	
C3937	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3939	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3940	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3941	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C4901	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	
C4902	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	
C4903	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	
C4904	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	
C4907	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	
C4908	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	
C4909	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	
C4910	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	
C4915	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	
C4916	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	
D3902	MA4075N-M	DIODE	
D3903	MA4075N-M	DIODE	
IC3901	AN3581S	IC	
IC3902	LA73021M	IC	
IC3903	NJM2533M	IC	
JK3901	VJJ0416	JACK	K2HA307A0001
JK3902	VJJ0416	JACK	K2HA307A0001
JK3903	VJJ0574	S TERMINAL	K1CB104A0009
JK3904	VJJ0574	S TERMINAL	K1CB104A0009
JK3905	VJS1470	CONNECTOR (FEMALE)	K1FB121A0002
JK3906	VJS1470	CONNECTOR (FEMALE)	K1FB121A0002
JK3907	VJJ0169	REMOTE CONTROLLER JACK	K2HD103A0003
JK3908	VJJ0597	EDIT 5P	K2HZ105A0001
L3901	VLQ0599J270	COIL 27UH	
L3904	VLQ0599J330	COIL 33UH	
L3905	VLQ0599J330	COIL 33UH	
L3906	VLQ0599J330	COIL 33UH	
L3907	VLQ0599J330	COIL 33UH	
L4901	VLQ0599JR22	COIL 0.22UH	
LB3901	VLP0147	COIL	
LB3902	VLP0147	COIL	
LB4901	VLP0147	COIL	
LB4902	VLP0147	COIL	
LB4903	VLP0147	COIL	
LB4904	VLP0147	COIL	
LB4905	VLP0147	COIL	
LB4906	VLP0147	COIL	
LB4908	VLP0147	COIL	
LB4909	VLP0147	COIL	
LB4910	VLP0147	COIL	

Ref. No.	Part No.	Part Name& Description	Remarks
LB4911	VLP0147	COIL	
LB4912	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
LB4913	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
P3905	VJP1148	CONNECTOR (MALE) 2P	K1KA02B00105
PS3901	VJS3042B005W	CONNECTOR (FEMALE) 5P	K1KB05B00012
PS3902	VJS3042B010W	CONNECTOR (FEMALE) 10P	
PS3903	VJS3042B008W	CONNECTOR (FEMALE) 8P	
PS3904	VJS3042B015W	CONNECTOR (FEMALE) 15P	
PS3905	VJS3042B013W	CONNECTOR (FEMALE) 13P	
Q3901	XN6501	TRANSISTOR-TRANSISTOR	
Q3902	2SD601A	TRANSISTOR	
Q3903	2SD601A	TRANSISTOR	
Q3905	2SD1328-S	TRANSISTOR	
QR3902	MUN2212	TRANSISTOR	
R3901	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R3902	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R3903	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R3904	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R3905	ERJ6GEYG911	M.RESISTOR CH 1/10W 910	
R3906	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	
R3907	ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	
R3908	ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	
R3909	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	
R3910	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	
R3911	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	
R3912	ERJ6GEYG911	M.RESISTOR CH 1/10W 910	
R3913	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	
R3914	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	
R3915	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R3916	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R3917	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R3918	ERDS2TJ750	C.RESISTOR 1/4W 75	
R3920	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	
R3922	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R3923	ERDS2TJ331	C.RESISTOR 1/4W 330	
R3924	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R3925	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R3926	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R3927	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R3928	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R3929	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R3930	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R3931	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R3932	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R3933	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R3934	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R3935	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	
R3936	ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	
R3937	ERJ6GEYJ511	M.RESISTOR CH 1/10W 510	
R3938	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R4901	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
R4902	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
R4903	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
R4904	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	

Ref. No.	Part No.	Part Name& Description	Remarks
S3901	VSS0513	SLIDE SWITCH	K0D142A00023
	VMC1558	EARTH SPRING	
■	VEP05392A	HEAD AMP C.B.A.	(RTL)
C501	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	
C502	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	
C503	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C504	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C505	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	
C506	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	
C507	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	
C508	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	
C509	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C551	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C552	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	
C553	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	
C554	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C555	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C556	ECEA1HKS3R3	E.CAPACITOR 50V 3.3U	
C557	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C558	ECEA1AKS221	E.CAPACITOR 10V 220U	
C559	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C560	ECUM1H681JCN	C.CAPACITOR CH 50V 680P	
IC501	AN3370K	IC	
IC551	AN3328S	IC	
L501	VLQ0599J5R6	COIL 5.6UH	G0C5R6JA0026
L502	VLQ0599J330	COIL 33UH	
L551	VLQ0599J560	COIL 56UH	G0C560JA0026
P501	VJS3968J012T	CONNECTOR (FEMALE) 12P	K1KB12B00038
P502	VJP3932B008T	CONNECTOR (MALE) 8P	K1KA08B00089
P503	VJP3932B008T	CONNECTOR (MALE) 8P	K1KA08B00089
Q501	2SB709A	TRANSISTOR	
Q502	2SD601A	TRANSISTOR	
R501	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R502	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R503	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	
R504	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	
R505	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	
R506	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R507	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	
R508	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	
R553	ERJ6RED130	M.RESISTOR CH 1/10W 13	
R554	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
	VSC4628	SHIELD CASE (A)	
	VSC4629	SHIELD CASE (B)	
■	VEP04762C	AV FRONT C.B.A.	(RTL)
C6501	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C6505	ECUM1H821JCN	C.CAPACITOR CH 50V 820P	
C6506	ECUM1H821JCN	C.CAPACITOR CH 50V 820P	
D6504	LN38GCPPSVT	LED	
D6505	ERZVA5V471	SURGE ABSORBER	
JK6501	VJJ0573	3-PIN AV JACK	K2HA303A0004

Ref. No.	Part No.	Part Name& Description	Remarks
JK6502	VJJ0574	S TERMINAL	K1CB104A0009
K6501	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
P6501	VJS3630B018B	CONNECTOR (FEMALE) 18P	K1KB18B00014
QR6501	UN221F	TRANSISTOR	
R6501	ERDS2TJ271	C.RESISTOR 1/4W 270	
R6502	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R6503	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R6504	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R6505	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R6506	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R6507	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R6508	ER0S2CKG2002	M.RESISTOR 1/4W 20K	
R6510	ERJ6GEYG123	M.RESISTOR CH 1/10W 12K	
R6511	ERJ6GEYG822	M.RESISTOR CH 1/10W 8.2K	
R6512	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	
R6513	ER0S2CKG4301	M.RESISTOR 1/4W 4.3K	
S6501	EVQ11L07B	SWITCH	
S6502	EVQ11L07B	SWITCH	
S6503	EVQ11L07B	SWITCH	
S6504	EVQ11L07B	SWITCH	
S6505	EVQ11L07B	SWITCH	
S6506	EVQ11L07B	SWITCH	
	VGQ0457	LED SPACER	
■	VEP06D78A	FRONT SWITCH C.B.A.	(RTL)
D6301	LN38GCPPSVT	LED	
P6301	VJS3630B012B	CONNECTOR (FEMALE) 12P	K1KB12B00039
R6301	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R6302	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R6303	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R6304	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R6305	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R6306	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R6307	ERDS2TJ271	C.RESISTOR 1/4W 270	
R6308	ERJ6GEYG432	M.RESISTOR CH 1/10W 4.3K	
R6309	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	
R6310	ERJ6GEYG822	M.RESISTOR CH 1/10W 8.2K	
R6311	ERJ6GEYG123	M.RESISTOR CH 1/10W 12K	
R6312	ERJ6GEYG432	M.RESISTOR CH 1/10W 4.3K	
R6313	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	
R6314	ERJ6GEYG822	M.RESISTOR CH 1/10W 8.2K	
R6315	ERJ6GEYG123	M.RESISTOR CH 1/10W 12K	
R6316	ERJ6GEYG203	M.RESISTOR CH 1/10W 20K	
S6301	VSQ0817	JOG/SHUTTLE ENCODER	
S6302	EVQ11L07B	SWITCH	
S6303	EVQ11L07B	SWITCH	
S6307	EVQ11L07B	SWITCH	
S6308	EVQ11L07B	SWITCH	
S6312	EVQ11L07B	SWITCH	
S6313	EVQ11L07B	SWITCH	
S6314	EVQ11L07B	SWITCH	
S6315	EVQ11L07B	SWITCH	
S6316	EVQ11L07B	SWITCH	
	VGQ0457	LED SPACER	

Ref. No.	Part No.	Part Name& Description	Remarks
■	VEP07A30C	OSD C.B.A.	(RTL)
B7701	CR2354-1GUF	LITHIUM BATTERY	
C7701	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C7702	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C7703	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C7704	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C7705	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C7706	ECEA0JKA220	E.CAPACITOR 6.3V 22U	
C7710	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C7711	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	F1J1C105A063
C7712	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C7713	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	
C7714	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	
C7715	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	F1J1C105A063
C7716	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	
C7717	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	F1J1C105A063
C7718	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	
C7719	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C7721	ECEA1HKN010	E.CAPACITOR 50V 1U	
C7722	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C7723	ECUX0J105KBV	C.CAPACITOR CH 50V 1U	
C7724	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	F1J1C105A063
C7725	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C7726	ECEA1HKN010	E.CAPACITOR 50V 1U	
C7727	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C7728	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	
C7729	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	
C7730	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C7731	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	
C7734	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C7735	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C7736	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C7737	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C7738	ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	
C7739	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	
C7740	ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	
C7741	ECUM1H390JCN	C.CAPACITOR CH 50V 39P	
C7742	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C7743	ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	
C7745	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C7746	ECEA1CKS100	E.CAPACITOR 16V 10U	
C7747	ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	
C7748	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	
C7749	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	
C7750	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	
C7753	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	
C7754	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	
C7755	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	
C7756	ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	
C7757	ECEA1CKA100	E.CAPACITOR 16V 10U	
C7759	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	
C7760	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	
C7761	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	

Ref. No.	Part No.	Part Name& Description	Remarks
C7762	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	
C7763	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C7765	ECEA1HKA010	E.CAPACITOR 50V 1U	
C7766	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C7767	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C7768	ECEA1HKA010	E.CAPACITOR 50V 1U	
C7769	ECEA1HKA010	E.CAPACITOR 50V 1U	
C7770	ECEA1HKA010	E.CAPACITOR 50V 1U	
C7771	ECEA0JKA221	E.CAPACITOR 6.3V 220U	
C7772	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C7773	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	
C7774	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C7775	ECEA0JKA470	E.CAPACITOR 6.3V 47U	
C7776	ECUM1H390JCN	C.CAPACITOR CH 50V 39P	
C7777	ECEA1HKN010	E.CAPACITOR 50V 1U	
C7778	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C7781	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	
C7783	ECEA0JKA221	E.CAPACITOR 6.3V 220U	
C7785	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C7786	ECEA0JKA221	E.CAPACITOR 6.3V 220U	
C7787	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
C7788	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	
D7703	MA728	DIODE	
D7704	1SS355	DIODE	
D7705	1SS355	DIODE	
D7706	1SS355	DIODE	
D7707	1SS355	DIODE	
DL7701	ELB4Y029B	DELAY LINE	
IC7701	M306H1SFP	IC	
IC7702	C3CAKC000007	IC	
IC7703	C3BBHC000226	IC	
IC7704	NJM2513M	IC	
IC7705	NJM2533M	IC	
IC7706	M52390FP	IC	
IC7707	LA7213	IC	C1AA00000016
IC7708	NJU4052BV	IC	
K7713	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
K7715	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K7718	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
K7719	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
L7701	ELJPA101KB	COIL 100UH	
L7702	ELJPA390KB	COIL 39UH	
L7704	ELJPA390KB	COIL 39UH	
L7705	ELJPA101KB	COIL 100UH	
L7707	VLQ0163J4R7	COIL 4.7UH	
L7710	VLQ0163J100	COIL 10UH	
L7711	VLQ0163J330	COIL 33UH	G1C330J00004
L7712	ELJPA101KB	COIL 100UH	
L7713	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	
PS7701	VJS3042B015W	CONNECTOR (FEMALE) 15P	
PS7702	VJS3042B015W	CONNECTOR (FEMALE) 15P	
PS7703	VJS3042B015W	CONNECTOR (FEMALE) 15P	
Q7701	XN5601	TRANSISTOR	
Q7704	2SB709A	TRANSISTOR	

Ref. No.	Part No.	Part Name& Description	Remarks
Q7705	MSC2295-C	TRANSISTOR	
Q7706	2SB1218A	TRANSISTOR	
Q7707	2SD1819A	TRANSISTOR	
Q7708	2SB709A	TRANSISTOR	
Q7709	2SD601A	TRANSISTOR	
Q7713	2SD1819A	TRANSISTOR	
Q7714	2SD601A	TRANSISTOR	
Q7715	2SB709A	TRANSISTOR	
Q7716	2SD601A	TRANSISTOR	
Q7717	2SB1218A	TRANSISTOR	
Q7718	2SB1218A	TRANSISTOR	
Q7720	2SB1218A	TRANSISTOR	
Q7721	2SD1819A	TRANSISTOR	
Q7723	2SD601A	TRANSISTOR	
Q7724	2SB709A	TRANSISTOR	
QR7701	MUN2213	TRANSISTOR	
QR7702	MUN2213	TRANSISTOR	
QR7712	UN221L	TRANSISTOR	
QR7713	UN2116	TRANSISTOR	
R7701	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	
R7702	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7703	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	
R7704	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7705	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7706	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7707	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
R7708	ERJ3GEYJ511	M.RESISTOR CH 1/16W 510	
R7709	ERJ3GEYJ511	M.RESISTOR CH 1/16W 510	
R7710	ERJ6GEYJ511	M.RESISTOR CH 1/10W 510	
R7711	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	
R7712	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	
R7713	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7714	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7715	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7716	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7717	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7718	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7719	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7720	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7721	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7722	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7723	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7724	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7725	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7726	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7727	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7728	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7729	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7730	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7731	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7734	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	
R7740	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7741	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7742	ERJ6GEYJ911	M.RESISTOR CH 1/10W 910	

Ref. No.	Part No.	Part Name& Description	Remarks
R7743	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	
R7744	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	
R7745	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	
R7746	ERJ6GEYJ111	M.RESISTOR CH 1/10W 110	
R7747	ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	
R7754	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7755	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7756	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7757	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	
R7758	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7759	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7760	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
R7761	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	
R7762	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7763	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R7764	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7765	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7766	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7767	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7768	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7769	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7770	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7771	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	
R7772	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7773	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7774	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	
R7775	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R7776	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7777	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	
R7778	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	
R7779	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	
R7780	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7781	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	
R7782	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R7783	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	
R7784	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	
R7785	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	
R7786	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	
R7787	ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	
R7788	ERJ6GEYJ111	M.RESISTOR CH 1/10W 110	
R7789	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R7790	ERJ6GEYJ511	M.RESISTOR CH 1/10W 510	
R7791	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
R7792	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R7794	ERJ3GEYG153	M.RESISTOR CH 1/16W 15K	
R7795	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	
R7796	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	
R7797	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	
R7798	ERJ3GEYG562	M.RESISTOR CH 1/16W 5.6K	
R7799	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7801	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	
R7803	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7811	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	
R7812	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	

Ref. No.	Part No.	Part Name& Description	Remarks
R7813	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	
R7814	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	
R7815	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7816	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7817	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	
R7818	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	
R7819	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R7820	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	
R7821	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	
R7822	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	
R7823	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	
R7825	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R7827	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	
R7828	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	
R7830	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	
R7831	ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	
R7832	ERJ6GEYJ201	M.RESISTOR CH 1/10W 200	
R7833	ERJ6GEYJ201	M.RESISTOR CH 1/10W 200	
R7834	ERJ6GEYJ201	M.RESISTOR CH 1/10W 200	
R7835	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	
R7836	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	
R7837	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	
R7838	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	
R7839	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	
R7840	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	
R7841	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7842	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7843	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	
R7844	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7846	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7848	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R7849	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	
R7850	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	
R7851	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R7853	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	
R7854	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	
R7855	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	
R7856	ERJ6GEYJ432	M.RESISTOR CH 1/10W 4.3K	
R7858	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7861	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7862	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7863	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7864	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7866	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
VC7701	ECRLA030E53R	CERAMIC TRIMMER CAPACITOR	
X7701	VSX1043	CRYSTAL OSCILLATOR	
X7702	VSX0544	CRYSTAL OSCILLATOR	
X7703	H0D443400025	CRYSTAL OSCILLATOR	
	VMX0985	SPACER	
	VHN0328	RIVET	
	VHN0328	RIVET	
	VMZ3091	OSD BARRIER	
■	VEP03F51B	SECAM/T.B.C. C.B.A.	(RTL)

Ref. No.	Part No.	Part Name& Description	Remarks
C3511	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C3512	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3701	ECEA0JKA220	E.CAPACITOR 6.3V 22U	
C3702	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3703	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3704	ECEA0JKA470	E.CAPACITOR 6.3V 47U	
C3705	ECEA0JKA470	E.CAPACITOR 6.3V 47U	
C3706	ECUM1C274KBN	C.CAPACITOR CH 16V 0.27U	F1J1C274A090
C3707	ECEA1HKN010	E.CAPACITOR 50V 1U	
C3708	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	
C3709	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	
C3710	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	
C3711	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3712	ECUM1E393KBN	C.CAPACITOR CH 25V 0.039U	
C3713	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3714	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3715	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3717	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3718	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3719	ECEA0JKA220	E.CAPACITOR 6.3V 22U	
C3721	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C3751	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	
C3752	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	
C3753	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	
D3701	1SS254	DIODE	
IC3701	C0JBAK000185	IC	
IC3702	C0JBAK000185	IC	
IC3703	C0JBAK000185	IC	
IC3704	C0JBAQ000144	IC	
IC3705	C0JBAR000281	IC	
IC3706	C0JBAC000263	IC	
IC3707	C0JBAF000407	IC	
IC3708	TCHC4538AF	IC	
IC3709	NJM3414AM	IC	
IC3710	TC74HC4053AF	IC	C0JBAR000231
IC3711	TC7SU04F	IC	
IC3712	C0JBAB000173	IC	
K3701	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
L3506	VLQ0599J100	COIL 10UH	
L3701	VLQ0599J680	COIL 68UH	
L3702	VLQ0599J680	COIL 68UH	
PP3751	VJP3043A003W	CONNECTOR (MALE) 3P	
PS3501	VJS3043B007W	CONNECTOR (FEMALE) 7P	
PS3502	VJS3043B003W	CONNECTOR (FEMALE) 3P	
PS3503	VJS3043B007W	CONNECTOR (FEMALE) 7P	
PS3751	VJS3043B003W	CONNECTOR (FEMALE) 3P	
Q3702	2SD601A	TRANSISTOR	
Q3703	2SD601A	TRANSISTOR	
Q3704	2SD601A	TRANSISTOR	
Q3751	2SC2295	TRANSISTOR	
Q3752	2SB709A	TRANSISTOR	
QR3701	UN2215	TRANSISTOR-RESISTOR	
QR3702	UN2213	TRANSISTOR-RESISTOR	
R3701	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	

Ref. No.	Part No.	Part Name& Description	Remarks
R3702	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R3703	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R3704	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	
R3705	ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	
R3706	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R3707	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	
R3708	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	
R3709	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	
R3710	ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	
R3711	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
R3712	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	
R3713	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	
R3714	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R3715	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	
R3751	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R3752	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	
R3753	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	
R3754	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	
R3755	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
X3751	H0D443400025	CRYSTAL OSCILLATOR	
■	VEP01835B	POWER C.B.A.	⚠(RTL)
C1114	ECA1VXLV470	E.CAPACITOR 35V 47U	
C1120	ECQU2A104MVA	P.CAPACITOR 250V 0.1U	⚠
C1121	ECQU2A104MVA	P.CAPACITOR 250V 0.1U	⚠
C1122	ECKMWS102MEV	C.CAPACITOR 1000P	⚠
C1123	ECKMWS102MEV	C.CAPACITOR 1000P	⚠
C1124	ECKMWS102MEV	C.CAPACITOR 1000P	⚠
C1140	ECEC2GG680FZ	E.CAPACITOR 400V 68U	
C1150	ECCZ3A101KGE	C.CAPACITOR 1KV 100P	⚠
C1151	ECKD2H103PU	C.CAPACITOR 500V 0.01U	⚠
C1180	ECEA0JGE331	E.CAPACITOR 6.3V 330U	
C1181	ECKF1H102KB	C.CAPACITOR 50V 1000P	
C1201	ECQB1H822JF	P.CAPACITOR 50V 8200P	
C1202	ECQV1H104JM	P.CAPACITOR 50V 0.1U	
C1230	EEUFA1H820	E.CAPACITOR 50V 82U	
C1231	ECKF1H103ZF	C.CAPACITOR 50V 0.01U	
C1232	ECKD2H101KB	C.CAPACITOR 500V 100P	
C1240	EEUFA1A122S	E.CAPACITOR 10V 1200U	
C1241	EEUFA1A102B	E.CAPACITOR 10V 1000U	
C1242	ECKD2H101KB	C.CAPACITOR 500V 100P	
C1250	EEUFA1E102B	E.CAPACITOR 25V 1000U	
C1251	EEUFA1E102B	E.CAPACITOR 25V 1000U	
C1252	ECKD2H101KB	C.CAPACITOR 500V 100P	
C1260	EEUFA1A182	E.CAPACITOR 10V 1800U	
C1261	EEUFA1A102B	E.CAPACITOR 10V 1000U	
C1262	ECKD2H221KB	C.CAPACITOR 500V 220P	
C1270	EEUFA1H121	E.CAPACITOR 50V 120U	
C1271	ECKF1H103ZF	C.CAPACITOR 50V 0.01U	
C1272	ECKD2H101KB	C.CAPACITOR 500V 100P	
C1280	EEUFA1A391	E.CAPACITOR 10V 390U	
C1281	ECQB1H103JF	P.CAPACITOR 50V 0.01U	

Ref. No.	Part No.	Part Name& Description	Remarks
C1282	ECQB1H103JF	P.CAPACITOR 50V 0.01U	
C1300	ECQE6104KF	P.CAPACITOR 630V 0.1U	
D1140	S1WBA80	DIODE	⚠B0EBKT000003
D1150	AP01C	DIODE	⚠B0HADV000010
D1180	MA4200H	DIODE	
D1181	MA700	DIODE	
D1182	MA7300B	DIODE	
D1183	1SS254	DIODE	
D1200	MA185	DIODE	⚠
D1230	ERA22-04	DIODE	
D1240	11EQS06	DIODE	
D1250	RL2ZP	DIODE	
D1260	21DQ06FC4	DIODE	B0JAMG000013
D1270	ERA22-04	DIODE	
D1280	11EQS06	DIODE	
D1300	ERA15-08	DIODE	⚠
D1301	ERA15-08	DIODE	⚠
D1302	RD100E	ZENER DIODE	B0BA10000001
F1180	XBA2C16TB0	FUSE	⚠K5D162BL0004
IC1150	STRM6559LF	IC	⚠C5HACZZ00001
IC1200	HA17431PA	IC	
IP1280	VSF0015A10	FUSE	⚠
L1120	ELF15N005A	LINE FILTER	⚠
L1121	ELF17N004A	LINE FILTER	⚠
L1230	ELESE101KA	COIL 100UH	
L1240	VLQ0655K220	COIL 22UH	
L1250	VLQ0655K220	COIL 22UH	
L1260	VLQ0655K220	COIL 22UH	
L1270	ELESE101KA	COIL 100UH	
LB1150	VLP0056	FERRITE BEAD	
P1101	VJS3306	AC INLET	⚠K2AA2G000002
P1102	VJP3917A016G	CONNECTOR (MALE) 16P	K1KA16A00131
Q1200	PC123FY2	PHOTO COUPLER	⚠B3PAA0000012
R1120	ERC12AGM334	S.RESISTOR 1/2W 330K	⚠
R1150	ERX1SJR82	M.RESISTOR 1W 0.82	
R1151	ERDS2FJ331	C.RESISTOR 1/4W 330	
R1152	ERDS2FJ471	C.RESISTOR 1/4W 470	
R1153	ERDS1TJ475	C.RESISTOR 1/2W 4.7M	
R1154	ERDS1TJ395	C.RESISTOR 1/2W 3.9M	
R1155	ERG1SJ273	M.RESISTOR 1W 27K	
R1180	ERDS2FJ103	C.RESISTOR 1/4W 10K	
R1181	ERDS2FJ101	C.RESISTOR 1/4W 100	
R1182	ERDS2FJ124	C.RESISTOR 1/4W 120K	
R1183	ERDS2FJ152	C.RESISTOR 1/4W 1.5K	
R1200	ERDS2FJ2R7	C.RESISTOR 1/4W 2.7	
R1201	ERDS2FJ222	C.RESISTOR 1/4W 2.2K	
R1202	ERDS2TJ271	C.RESISTOR 1/4W 270	
R1203	ERDS2TJ561	C.RESISTOR 1/4W 560	
R1204	ERDS2TJ272	C.RESISTOR 1/4W 2.7K	
R1205	ER0S2CKG6801	M.RESISTOR 1/4W 6.8K	
R1206	ER0S2CKG2701	M.RESISTOR 1/4W 2.7K	

Ref. No.	Part No.	Part Name& Description	Remarks
R1207	ER0S2CKG2701	M.RESISTOR 1/4W 2.7K	
T1150	ETE28K121AZ	SWITCHING TRANSFORMER	⚠
	VSC4205	SWITCH SHIELD COVER	
	VMP5133	INLET ANGLE	
	VHD0418	SCREW	
	TP00351-51	FUSE HOLDER	
	TP00351-51	FUSE HOLDER	
	VMZ2378	BARRIER	⚠
■	----------	RT CONNECTION C.B.A.	
	VJP2603W-F	CONNECTOR (MALE) 12P	
	VMA9509	MAIN HOLDER	
■	----------	STATOR CONNECTION C.B.A.	
	VJP3470	CONNECTOR (MALE) 9P	